
EXHIBIT A

**IN THE UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF NEW JERSEY**

INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE,	§	
	§	
	§	
Plaintiff,	§	
	§	C. A. No. 2:12-cv-00949 (ES)(CLW)
v.	§	
	§	JURY TRIAL DEMANDED
	§	
LG ELECTRONICS, INC., and LG ELECTRONICS U.S.A., INC.	§	
	§	
Defendants.	§	
	§	

**PLAINTIFF INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE'S AMENDED
PATENT INFRINGEMENT CONTENTIONS AND DOCUMENT DISCLOSURES**

Plaintiff Industrial Technology Research Institute (“Plaintiff” or “ITRI”) serves its Amended Patent Infringement Contentions and Document Disclosures (“Amended Preliminary Infringement Contentions”) on Defendants LG Electronics, Inc. and LG Electronics U.S.A., Inc. (collectively “Defendants”).

The claim charts submitted herewith in the attached **Exhibits A - C-2** demonstrate ITRI’s theories of infringement and are not designed to represent the entire scope of infringement of the Accused Instrumentalities, but are merely intended to illustrate examples of manners in which the Accused Instrumentalities infringe the asserted claims of U.S. Patent No. 6,324,150 (the ““150 patent”), U.S. Patent No. 7,672,198 (the ““198 patent”), and U.S. Patent No. 7,542,384 (the ““384 patent”) (collectively the “Asserted Patents”). The Amended Preliminary Infringement Contentions set forth the same theories of infringement as ITRI’s prior Preliminary Infringement Contentions, but detail additional products belatedly disclosed by LG in discovery. Indeed, LG did not confirm its production of “technical documents” was complete until June 20, 2013. ITRI expressly reserves the right to revise these Amended Preliminary Infringement

Contentions as discovery progresses. Further, ITRI contends that LG's production of technical documents is still incomplete. Please note these claim charts include correction of a typographical error previously-resolved by way of the parties' stipulation [Dkt No. 192].

Further, the division of claim elements in the attached claim charts are neither intended to be a modification of the claim language itself nor an admission that the claims should be construed in any manner, and are only designed as a disclosure for the theories of infringement of the Asserted Patents. Rather, the division of claim elements is provided for purposes of convenience and clarity.

I. DISCLOSURE OF ASSERTED CLAIMS AND PATENT INFRINGEMENT CONTENTIONS AGAINST DEFENDANTS

ITRI provides the following disclosures regarding its claims of infringement of the asserted patents against the Defendants:

- (a) Each claim of each patent in suit that is allegedly infringed by each opposing party;**

Patent	Infringed Claims	Infringing Parties	Asserted Statutory Subsections
6,324,150	9	LG Electronics, Inc.; LG Electronics U.S.A., Inc.	35 U.S.C. §§ 271(a)-(c).
7,672,198	3, 4	LG Electronics, Inc.; LG Electronics U.S.A., Inc.	35 U.S.C. §§ 271(a)-(c).
7,542,384	12, 18	LG Electronics, Inc.; LG Electronics U.S.A., Inc.	35 U.S.C. §§ 271(a)-(c).

- (b) Separately for each asserted claim, each accused apparatus, product, device, process, method, act, or other instrumentality (“Accused Instrumentality”) of each opposing party of which the party is aware. This identification shall be as specific as possible. Each product, device, and apparatus shall be identified by name or model number, if known. Each method or process shall be identified by name, if known, or by any product, device, or apparatus which, when used, allegedly results in the practice of the claimed method or process;**

Patent	Asserted Claims	Accused Instrumentalities of Defendants
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6,324,150	9	BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551, BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954, BP125, BP200, BP325W, BP330, BP220, BP320, BP520, BP620, BP530, BP730, BD610, BH6730S, BH9430PW, BH9431PW
7,672,198	3, 4	GP08LU30, GP08LU11, GP10NB20, GT30L, GP40LB10, GP30NB20
7,542,384	12, 18	GP08LU30, GP08LU11, GP10NB20, GT30L, GP40LB10, GP30NB20

- (c) A chart identifying specifically where each limitation of each asserted claim is found within each Accused Instrumentality, including for each limitation that such party contends is governed by 35 U.S.C. § 112(6), the identity of the structure(s), act(s), or material(s) in the Accused Instrumentality that performs the claimed function;**

Charts identifying specifically where each element of each asserted claim is found within each Accused Instrumentality are provided as Exhibits A-1 - C-2¹. ITRI contents that no asserted claim of any of the Asserted Patents is governed by 35 U.S.C. § 112(6).

- (d) For each claim which is alleged to have been indirectly infringed, an identification of any direct infringement and a description of the acts of the alleged indirect infringer that contribute to or are inducing that direct infringement. Insofar as alleged direct infringement is based on joint acts of multiple parties, the role of each such party in the direct infringement must be described;**

Plaintiff makes no claim of indirect infringement.

- (e) Whether each limitation of each asserted claim is alleged to be literally present or present under the doctrine of equivalents in the Accused Instrumentality.**

Literal Infringement. As demonstrated herein, ITRI contends that all asserted claims are literally infringed by the Accused Instrumentalities, as indicated by the infringement claim charts submitted herewith as Exhibits A-1 - C-2.

Doctrine of Equivalents. ITRI further contends that any asserted claim not found to be

¹ ITRI specifically reserves the right to amend and/or supplement its Disclosure of Asserted Claims and Patent Infringement Contentions, particularly in light of the difficult of obtaining discovery from Defendants, and Defendants' failure to produce documents in accordance with the Local Patent Rules.

literally infringed is infringed under the doctrine of equivalents.

- (f) For any patent that claims priority to an earlier application, the priority date to which each asserted claim allegedly is entitled.**

The claims of the Asserted Patents claim a priority date as follows:

Patent	Priority Date
6,324,150	March 16, 1999
7,672,198	December 27, 2006
7,542,384	December 31, 2004

- (g) If a party claiming patent infringement wishes to preserve the right to rely, for any purpose, on the assertion that its own apparatus, product, device, process, method, act, or other instrumentality practices the claimed invention, the party shall identify, separately for each asserted claim, each such apparatus, product, device, process, method, act, or other instrumentality that incorporates or reflects that particular claim.**

ITRI makes no claim or assertion applicable to this provision.

- (h) If a party asserting patent infringement alleges willful infringement, the basis for such allegation.**

LG was placed on notice of the patents-in-suit at least as early as the time of the filing of the complaint in the instant case. Further, LG had prior notice of the technology at issue and ITRI's involvement in and ownership of that technology long before filing of suit. LG further acted in an objectively reckless manner by nevertheless continuing to make or sell products that embody the claims of the patents-in-suit despite the objectively high likelihood that its actions constituted infringement. ITRI further contends upon information and belief that LG has willfully infringed the patents-in-suit since receiving notice of such patents, at least in part because LG has no reasonable basis to believe that it does not infringe the patents-in-suit, and further has no reasonable basis to believe that the patents-in-suit are invalid or unenforceable

II. DOCUMENT PRODUCTION ACCOMPANYING DISCLOSURE

ITRI responds D. N.J. Local Patent Rules 3.2 as set forth below. ITRI reserves the right to amend or supplement these disclosures based on information not available to or identified by ITRI at this time.

- (a) **Documents (e.g., contracts, purchase orders, invoices, advertisements, marketing materials, offer letters, beta site testing agreements, and third party or joint development agreements) sufficient to evidence each discussion with, disclosure to, or other manner of providing to a third party, or sale of or offer to sell, or any public use of, the claimed invention prior to the date of application for the patent in suit. A party's production of a document as required herein shall not constitute an admission that such document evidences or is prior art under 35 U.S.C. § 102.**

No documents responsive to this disclosure requirement exist.

- (b) **All documents evidencing the conception, reduction to practice, design, and development of each claimed invention, which were created on or before the date of application for the patent in suit or the priority date identified pursuant to L.R. 3-1(e), whichever is earlier.**

A copy of documents responsive to this disclosure requirement was produced with bates numbers ITRI 005715 – 005723. ITRI reserves the right to further supplement these disclosures.

- (c) **A copy of the file history for each patent in suit (or so much thereof as is in the possession of the party asserting patent infringement).**

A copy of documents responsive to this disclosure requirement was produced with bates numbers ITRI 003613-003806, ITRI 004860-004962, and ITRI 005553-005657.

- (d) **All documents evidencing ownership of the patent rights by the party asserting patent infringement.**

A copy of documents responsive to this disclosure requirement was produced with bates numbers ITRI ITRI-ODD 000001-000013.

- (e) **If a party identifies instrumentalities pursuant to L. Pat. R. 3.1(g), documents sufficient to show the operation of any aspects of elements of such instrumentalities the party asserting patent infringement relies upon as embodying any asserted claims; and**

No such instrumentalities are identified.

- (f) **All documents or things that a party asserting patent infringement intends to rely on in support of any of its infringement contentions under these Rules.**

Plaintiff acknowledges the duty to supplement this disclosure obligation. At present, all documents supporting infringement are disclosed with or by these contentions or were produced by Defendants.

- (g) With respect to each of the above document productions, the producing party shall separately identify by production number which documents correspond to each category.

See references to production numbers above.

Dated: June 24, 2013

Respectfully submitted,

By: /s/ Andrew M. Howard
GIBBONS P.C.
Vincent E. McGeary
(vmcgeary@gibbonslaw.com)
One Gateway Center
Newark, NJ 07102-5310
Telephone: 973-596-4500
Facsimile: 973-596-0545

SHORE CHAN DEPUMPO LLP
Michael W. Shore
(mshore@shorechan.com)
Alfonso G. Chan
(achan@shorechan.com)
Eve L. Henson
(ehenson@shorechan.com)
Christopher L. Evans
(cevans@shorechan.com)
Andrew Howard
(ahoward@shorechan.com)
Wei Wei (wwei@shorechan.com)
901 Main Street, Suite 3300
Dallas, Texas 75202
Telephone: 214-593-9110
Facsimile: 214-593-9111

*Attorneys for Plaintiff
Industrial Technology Research Institute*

CERTIFICATE OF SERVICE

The undersigned hereby certifies that counsel of record for Defendants were served with the forgoing by regular mail and electronic mail on this 24th day of June 2013.

/s/ Andrew M. Howard

Andrew M. Howard

U.S. Patent No. 6,324,150**Exhibit A1**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9. An optical pickup head ¹	<p>Each element of this claim, except where noted otherwise, and each element of the asserted claims dependent thereon, is present literally and/or under the doctrine of equivalents in the accused LG Products.²</p> <p>ITRI provides these infringement contentions before obtaining complete discovery and disclosures from LG. Specifically, LG has not produced documentation sufficient to demonstrate how each and every optical pickup head operates, and has not produced documentation sufficient to demonstrate that it has identified every LG document corresponding to accused optical pickup heads. Further, LG has “confirmed” that particular LG products utilize certain optical pickup heads that are not borne out by physical inspection. ITRI expects that LG will produce information to fully meet its discovery obligations regarding LG’s instrumentalities beyond that which is publically available. Accordingly, ITRI reserves the right to modify these infringement contentions based upon LG’s document production and required disclosures.</p>

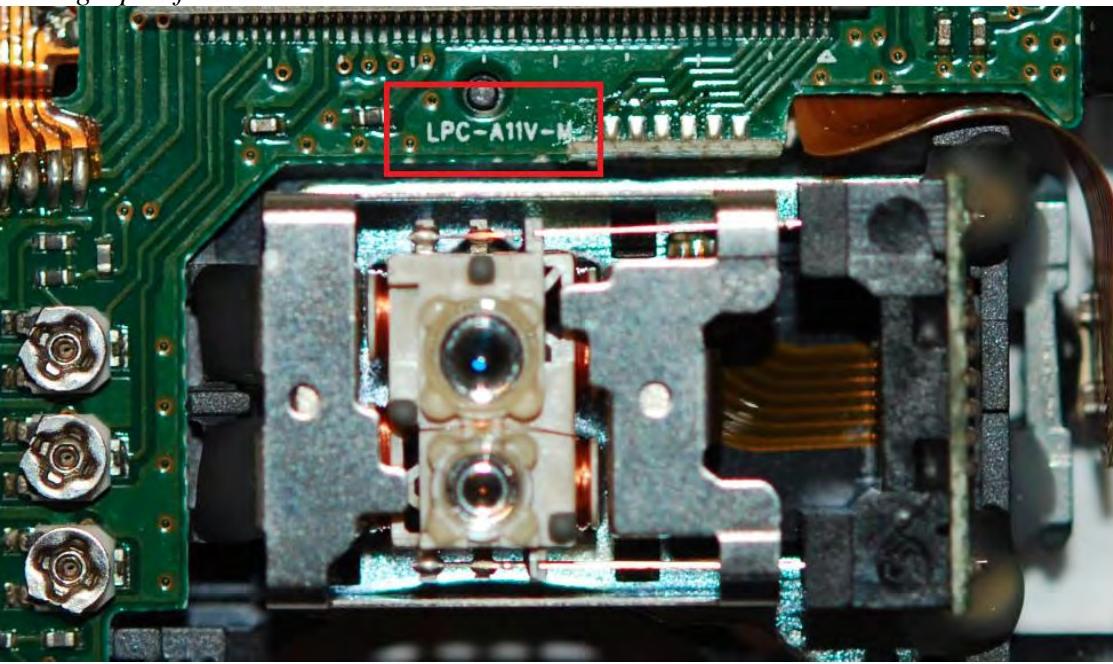
¹ ITRI contends that the preamble to this claim is not limiting in any manner. ITRI’s references to the accused product regarding the preamble are for illustration only and do not constitute an admission that the preamble is limiting.

² The LG Products often practice the claim elements in numerous alternative ways in accordance with the present chart. The LG Products should be assumed to act alone or in combination as referenced herein and interpreted in the singular or plural accordingly. LG further provides the LG Products as well as the instructions to customers/users causing them to use the accused products in an infringing manner, including, without limitation, in their default and expected uses.

To the extent each element of this claim, and the asserted claims dependent thereon are not present literally in the accused LG Products, each element is present under the doctrine of equivalents because there is no substantial difference between the elements of the asserted claims and the corresponding functionality in the accused instrumentality, *i.e.*, the corresponding functionality in the accused product performs substantially the same function, in substantially the same way to achieve substantially the same results as the claimed elements.

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p>Upon physical inspection, the following products use optical pickup units (“OPUs”) that ITRI contends are identical for purposes of infringement: BD530, BD550, BD670, BD690. Moreover, physical inspection of the BD550, BD670, and BD690 shows that these products contain marking identifying the OPU as LPC-A11V.</p> <p><i>Photograph of BD550</i></p> 

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p data-bbox="1047 380 1220 403">REDACTED</p> <p data-bbox="834 484 1013 507">REDACTED</p> <p data-bbox="608 1005 1134 1028"></p> <p data-bbox="542 1075 1833 1098"></p> <p data-bbox="542 1098 1702 1121"></p> <p data-bbox="595 1179 1343 1204"></p> <p data-bbox="595 1204 1343 1227"></p> <p data-bbox="595 1227 1343 1250"></p>

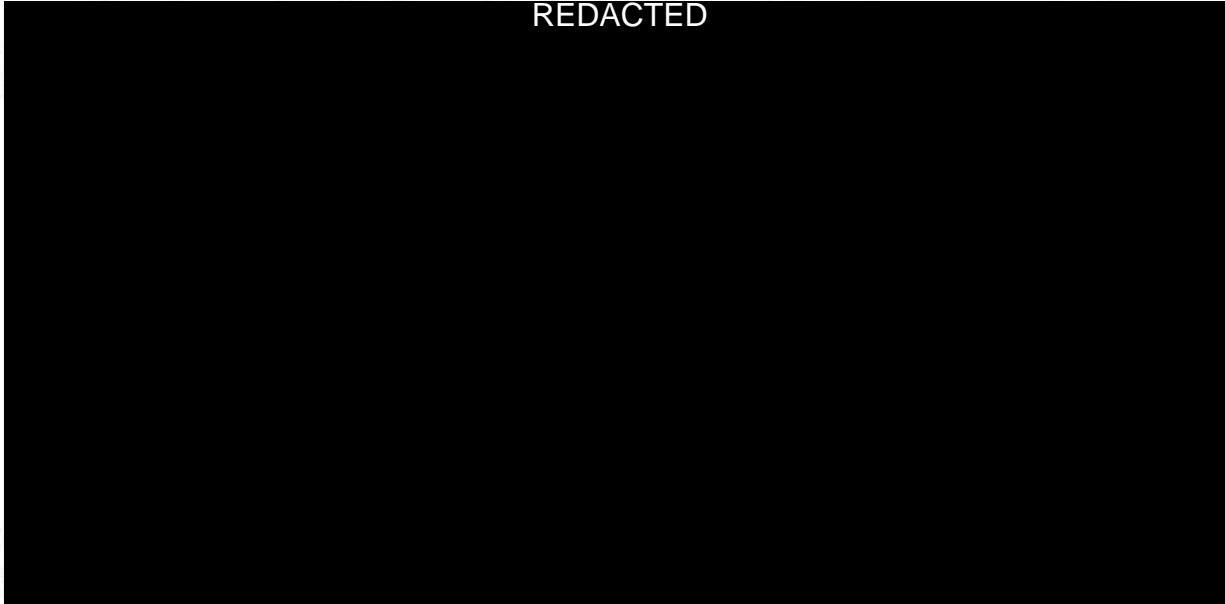
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p style="text-align: center;">REDACTED</p>  

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p>REDACTED</p> <p>REDACTED</p> 

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p><i>Photograph of LG BD530 Network Blu-ray Player</i></p> 

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p><i>Photograph of LG BD670 Network Blu-ray Player</i></p> 

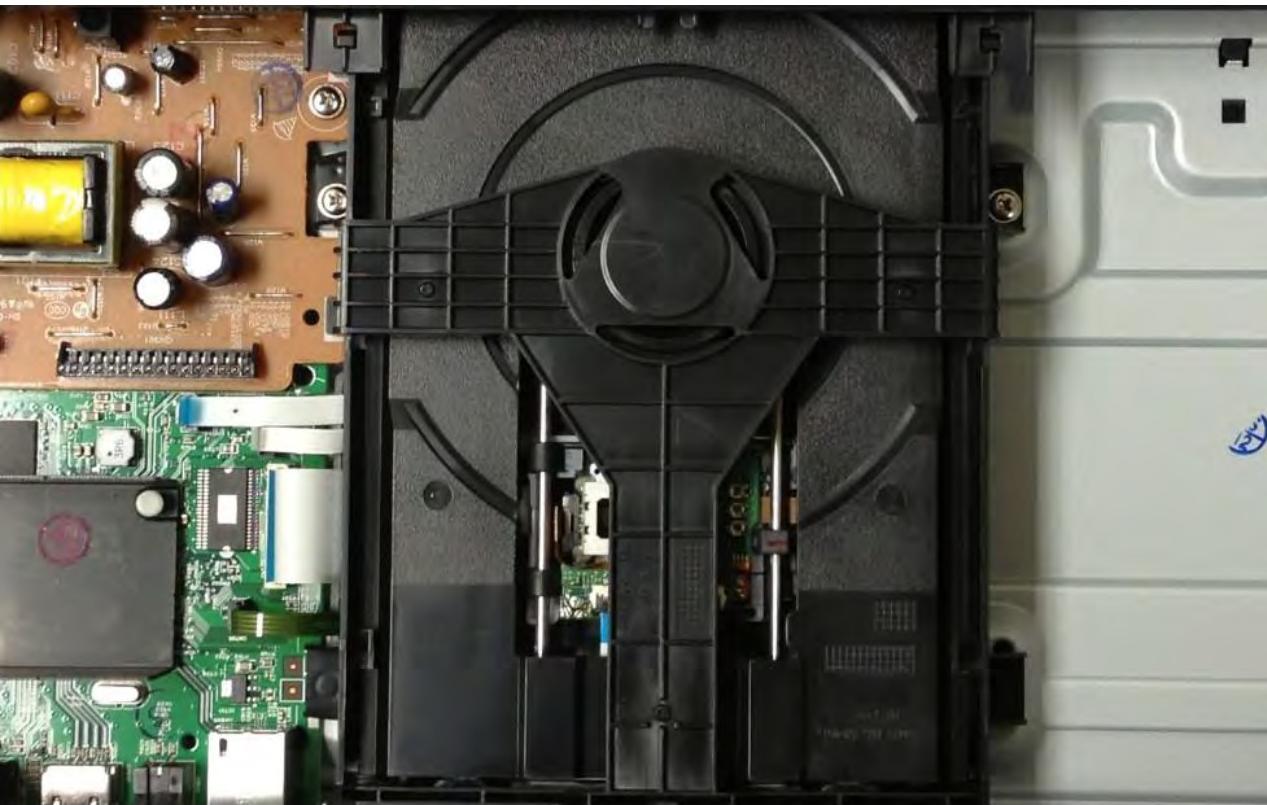
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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p data-bbox="540 437 1189 470"><i>Photograph of LG BD550 Network Blu-ray Player</i></p> 

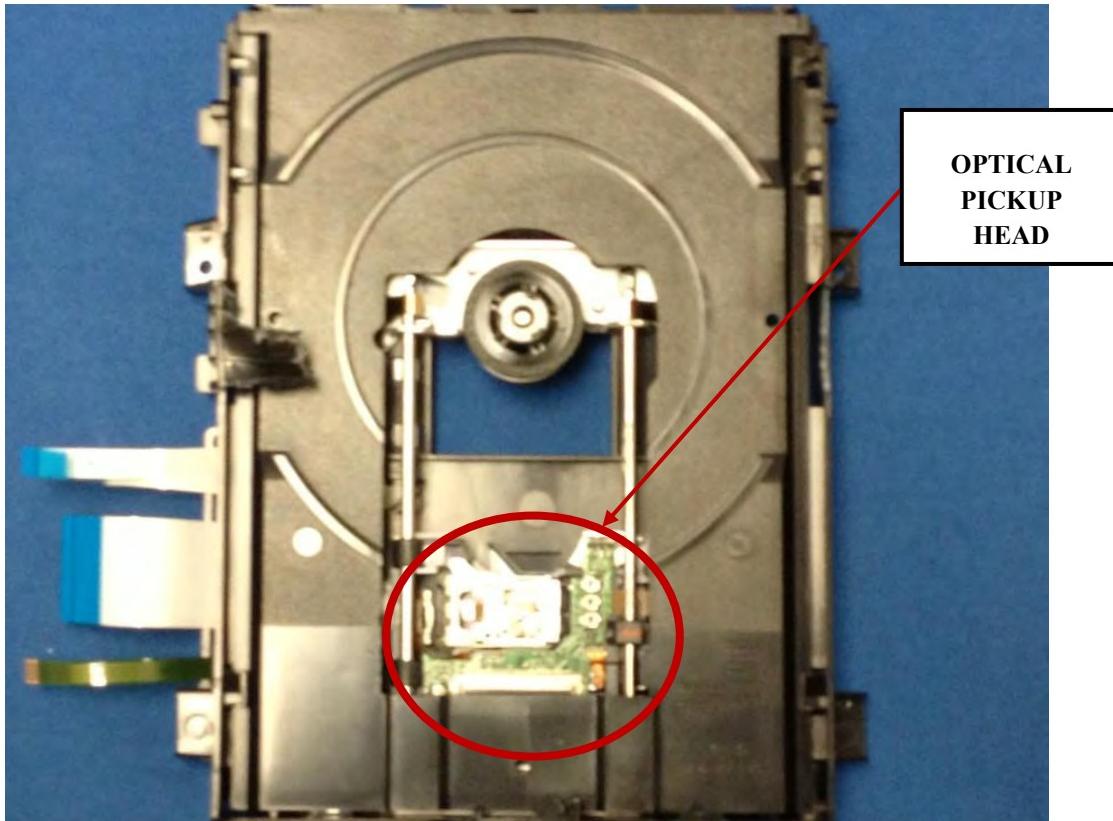
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p><i>Photograph of optical disk drive module from BD530</i></p> 

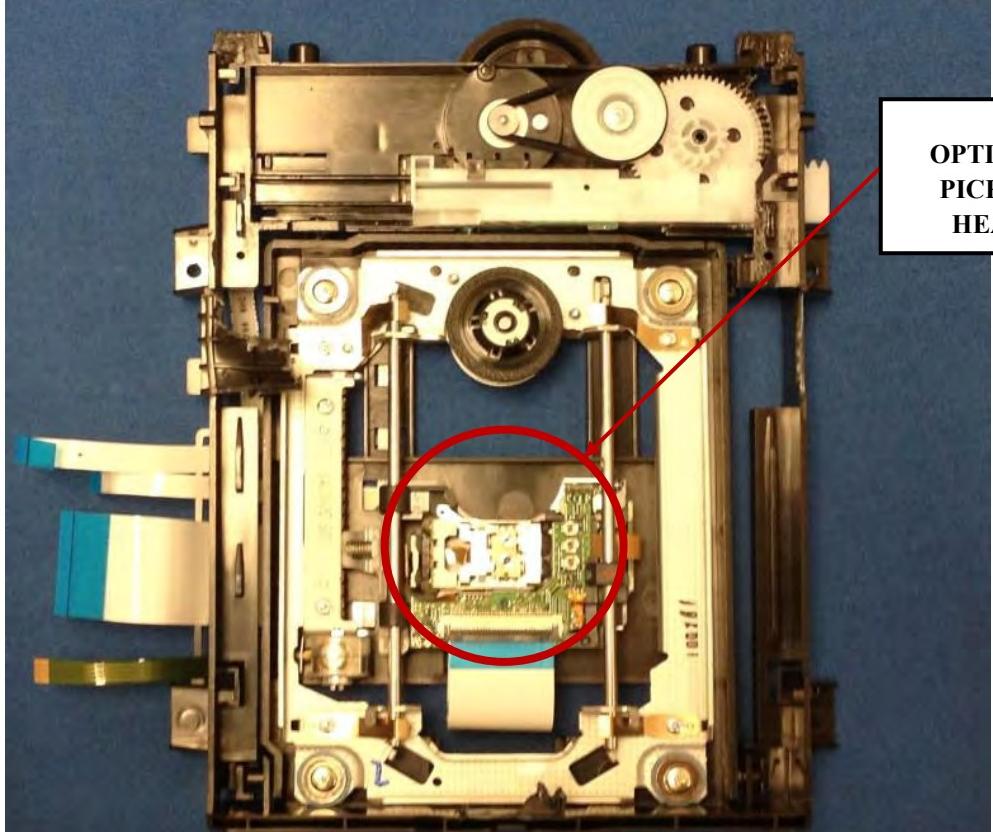
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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p><i>Photograph showing the optical disk drive mechanism with the panel cover removed from BD530</i></p>  <p>OPTICAL PICKUP HEAD</p>

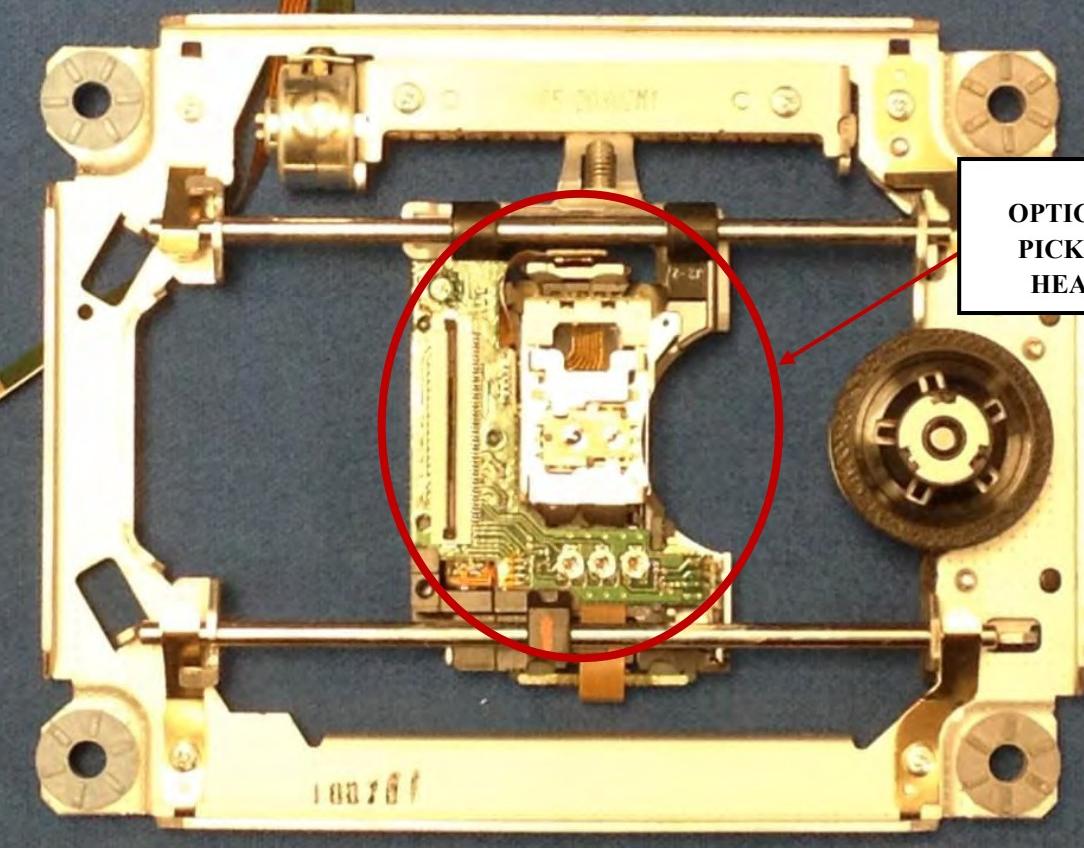
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Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p><i>Photograph showing the optical disk drive mechanism without the top panel cover from BD530</i></p>  <p>OPTICAL PICKUP HEAD</p>

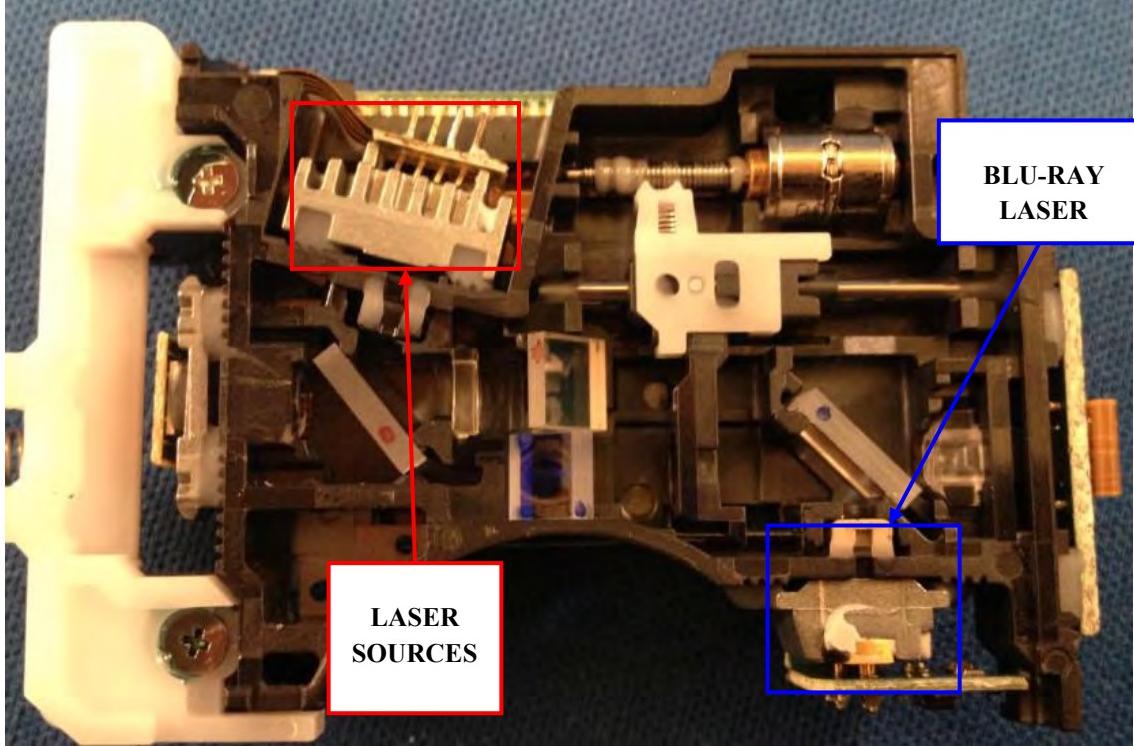
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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p><i>Photograph of the optical disk drive mechanism without the top and bottom panel covers from BD530</i></p>  <p>OPTICAL PICKUP HEAD</p>

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9a. using multiple laser sources of different wavelengths for reading/writing data on optical recording media of varying densities, comprising:	<p><i>Photograph of the optical pickup head without the top and bottom panel covers from BD530</i></p> 

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)																						
	<div style="text-align: center;"> <p>TECHNICAL SPECIFICATIONS REVIEWS ASK & ANSWER PRODUCT SUPPORT</p> <p>NETWORK BLU-RAY DISC™ PLAYER</p> <p>BD530</p> <p>DOWNLOAD PDF COLLAPSE ALL Specs</p> <p>VIDEO FEATURES</p> <p>AV INPUTS/OUTPUTS</p> <p>DIMENSIONS / WEIGHT</p> <p>AUDIO CAPABILITIES</p> <p>SUMMARY</p> <table border="1"> <tbody> <tr> <td>Blu-ray Support</td> <td>Yes</td> </tr> <tr> <td>Full HD 1080p resolution</td> <td>Yes</td> </tr> <tr> <td>Upscale Standard DVDs</td> <td>Yes</td> </tr> <tr> <td>USB 2.0 connectivity</td> <td>Yes</td> </tr> <tr> <td>No. of HDMI Ports</td> <td>1</td> </tr> <tr> <td>Express Reaction Startup</td> <td>Yes</td> </tr> <tr> <td>Disc Capacity</td> <td>1</td> </tr> <tr> <td>Disc Playback Capability</td> <td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td> </tr> <tr> <td>Video Content Format</td> <td>DVD, MP3, WMA, JPG</td> </tr> <tr> <td>SimpLink™ connectivity</td> <td>Yes</td> </tr> <tr> <td>Limited Warranty</td> <td>1 Year Parts/90 Days Labor</td> </tr> </tbody> </table> <p>SPECIAL FEATURES</p> <p>ACCESSORIES / BOX CONTENTS</p> <p>POWER</p> <p>WARRANTY / UPC</p> <p>Design, features and specifications subject to change without notice. BACK TO TOP ▲</p> </div> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD530-blu-ray-dvd-player</p>	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DVD, MP3, WMA, JPG	SimpLink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor
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U.S. Patent No. 6,324,150**Exhibit A1**

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	<p>NETWORK BLU-RAY DISC™ PLAYER</p> <p>BD550</p> <p>DOWNLOAD PDF COLLAPSE ALL SPECS</p> <p>VIDEO FEATURES</p> <p>AV INPUTS/OUTPUTS</p> <p>DIMENSIONS / WEIGHT</p> <p>AUDIO CAPABILITIES</p> <p>SUMMARY</p> <table border="1"> <tbody> <tr> <td>NetCast™ Entertainment Access</td> <td>Yes</td> </tr> <tr> <td>Internet Services</td> <td>Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®</td> </tr> <tr> <td>Blu-ray Support</td> <td>Yes</td> </tr> <tr> <td>Full HD 1080p resolution</td> <td>Yes</td> </tr> <tr> <td>Upscale Standard DVDs</td> <td>Yes</td> </tr> <tr> <td>USB 2.0 connectivity</td> <td>Yes</td> </tr> <tr> <td>No. of HDMI Ports</td> <td>1</td> </tr> <tr> <td>Express Reaction Startup</td> <td>Yes</td> </tr> <tr> <td>Disc Capacity</td> <td>1</td> </tr> <tr> <td>Disc Playback Capability</td> <td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td> </tr> <tr> <td>Video Content Format</td> <td>DVD, MP3, WMA, JPG</td> </tr> <tr> <td>SimpLink™ connectivity</td> <td>Yes</td> </tr> <tr> <td>Limited Warranty</td> <td>1 Year Parts/90 Days Labor</td> </tr> </tbody> </table> <p>SPECIAL FEATURES</p> <p>ACCESSORIES / BOX CONTENTS</p> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD550-blu-ray-dvd-player/technical-specifications</p>	NetCast™ Entertainment Access	Yes	Internet Services	Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DVD, MP3, WMA, JPG	SimpLink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor
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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)																										
	<p>NETWORK BLU-RAY DISC™ PLAYER WITH WIRELESS CONNECTIVITY</p> <p>BD640</p> <p> DOWNLOAD PDF COLLAPSE ALL Specs</p> <p>- DISC PLAYBACK CAPABILITY</p> <table><tbody><tr><td>Disc Capacity</td><td>1</td></tr><tr><td>Audio CD</td><td>Yes</td></tr><tr><td>CD-R/RW</td><td>Yes</td></tr><tr><td>Blu-ray Disc</td><td>Yes</td></tr><tr><td>BD-R/RE</td><td>Yes</td></tr><tr><td>DVD</td><td>Yes</td></tr><tr><td>DVD-R</td><td>Yes</td></tr><tr><td>DVD-RW</td><td>Yes</td></tr></tbody></table> <p>- VIDEO CONTENT FORMAT</p> <table><tbody><tr><td>MPEG2, HP@ML</td><td>Yes</td></tr><tr><td>MPEG4 AVC, HP@L4.1</td><td>Yes</td></tr><tr><td>SMPTE VC1, AP@L3</td><td>Yes</td></tr><tr><td>AVCHD</td><td>Yes</td></tr><tr><td>MKV</td><td>Yes</td></tr></tbody></table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD640-blu-ray-dvd-player</p>	Disc Capacity	1	Audio CD	Yes	CD-R/RW	Yes	Blu-ray Disc	Yes	BD-R/RE	Yes	DVD	Yes	DVD-R	Yes	DVD-RW	Yes	MPEG2, HP@ML	Yes	MPEG4 AVC, HP@L4.1	Yes	SMPTE VC1, AP@L3	Yes	AVCHD	Yes	MKV	Yes
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U.S. Patent No. 6,324,150

Exhibit A1

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	<p>3D-CAPABLE BLU-RAY DISC™ PLAYER WITH SMART TV</p> <p>BD650</p> <p><input checked="" type="checkbox"/> COLLAPSE ALL Specs</p> <p><input checked="" type="checkbox"/> DISC PLAYBACK CAPABILITY</p> <table> <tbody> <tr> <td>Disc Capacity</td> <td>1</td> </tr> <tr> <td>Audio CD</td> <td>Yes</td> </tr> <tr> <td>CD-R/RW</td> <td>Yes</td> </tr> <tr> <td>Blu-ray Disc</td> <td>Yes</td> </tr> <tr> <td>BD-R/RE</td> <td>Yes</td> </tr> <tr> <td>DVD</td> <td>Yes</td> </tr> <tr> <td>DVD-R</td> <td>Yes</td> </tr> <tr> <td>DVD-RW</td> <td>Yes</td> </tr> <tr> <td>Dual Disc (DVD+CD)</td> <td>Yes (DVD Layer Only)</td> </tr> </tbody> </table> <p><input checked="" type="checkbox"/> VIDEO CONTENT FORMAT</p> <table> <tbody> <tr> <td>MPEG2, HP@ML</td> <td>Yes</td> </tr> <tr> <td>MPEG4 AVC, HP@L4.1</td> <td>Yes</td> </tr> <tr> <td>SMPTE VC1, AP@L3</td> <td>Yes</td> </tr> <tr> <td>AVCHD</td> <td>Yes</td> </tr> <tr> <td>MKV</td> <td>Yes</td> </tr> </tbody> </table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD650-blu-ray-dvd-player</p>	Disc Capacity	1	Audio CD	Yes	CD-R/RW	Yes	Blu-ray Disc	Yes	BD-R/RE	Yes	DVD	Yes	DVD-R	Yes	DVD-RW	Yes	Dual Disc (DVD+CD)	Yes (DVD Layer Only)	MPEG2, HP@ML	Yes	MPEG4 AVC, HP@L4.1	Yes	SMPTE VC1, AP@L3	Yes	AVCHD	Yes	MKV	Yes
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U.S. Patent No. 6,324,150

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	<p>3D-CAPABLE BLU-RAY DISC™ PLAYER WITH SMART TV AND WIRELESS CONNECTIVITY</p> <p>BD670 DOWNLOAD PDF <input type="checkbox"/> COLLAPSE ALL SPECS</p> <p><input type="checkbox"/> SUMMARY</p> <table> <tbody> <tr><td>3D Blu-ray Disc Playback</td><td>Yes</td></tr> <tr><td>Wi-Fi Connectivity</td><td>Yes</td></tr> <tr><td>NetCast™ Entertainment Access</td><td>Yes</td></tr> <tr><td>Blu-ray Support</td><td>Yes</td></tr> <tr><td>Full HD 1080p resolution</td><td>Yes</td></tr> <tr><td>USB 2.0 connectivity</td><td>Yes</td></tr> <tr><td>No. of HDMI Ports</td><td>1</td></tr> <tr><td>Express Reaction Startup</td><td>Yes</td></tr> <tr><td>Disc Capacity</td><td>1</td></tr> <tr><td>Disc Playback Capability</td><td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td></tr> <tr><td>Video Content Format</td><td>DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV</td></tr> <tr><td>Home Link Playable Content Format</td><td>DivX®/DivX HD, MPEG2 TS/PS, MPEG1 SS, XVID, MKV, AVI, WMA, MP3, AC3, AAC, JPEG, PNG</td></tr> <tr><td>SimpLink™ connectivity</td><td>Yes</td></tr> <tr><td>Limited Waranty</td><td>1 Year Parts/90 Days Labor</td></tr> <tr><td>Menu Language</td><td>English/Spanish/French</td></tr> </tbody> </table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD670-blu-ray-dvd-player/technical-specifications</p>	3D Blu-ray Disc Playback	Yes	Wi-Fi Connectivity	Yes	NetCast™ Entertainment Access	Yes	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV	Home Link Playable Content Format	DivX®/DivX HD, MPEG2 TS/PS, MPEG1 SS, XVID, MKV, AVI, WMA, MP3, AC3, AAC, JPEG, PNG	SimpLink™ connectivity	Yes	Limited Waranty	1 Year Parts/90 Days Labor	Menu Language	English/Spanish/French
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U.S. Patent No. 6,324,150**Exhibit A1**

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	<p style="text-align: center;">3D-CAPABLE BLU-RAY DISC™ PLAYER WITH SMART TV AND 250GB STORAGE</p> <div style="display: flex; justify-content: space-between;"> BD690 DOWNLOAD PDF COLLAPSE ALL SPECS </div> <p>SUMMARY</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td>3D Blu-ray Disc Playback</td> <td>Yes</td> </tr> <tr> <td>Wi-Fi Connectivity</td> <td>Yes</td> </tr> <tr> <td>NetCast™ Entertainment Access</td> <td>Yes</td> </tr> <tr> <td>Internet Services</td> <td>Netflix®, Vudu™, YouTube™ and Roxio® CinemaNow</td> </tr> <tr> <td>Blu-ray Support</td> <td>Yes</td> </tr> <tr> <td>Full HD 1080p resolution</td> <td>Yes</td> </tr> <tr> <td>USB 2.0 connectivity</td> <td>Yes</td> </tr> <tr> <td>No. of HDMI Ports</td> <td>1</td> </tr> <tr> <td>Express Reaction Startup</td> <td>Yes</td> </tr> <tr> <td>Disc Capacity</td> <td>1</td> </tr> <tr> <td>Disc Playback Capability</td> <td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td> </tr> <tr> <td>Video Content Format</td> <td>DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV</td> </tr> <tr> <td>Home Link Playable Content Format</td> <td>DivX®/DivX HD, MPEG2 TS/PS, MPEG1 SS, XVID, MKV, AVI, WMA, MP3, AC3, AAC, JPEG, PNG</td> </tr> <tr> <td>SimpLink™ connectivity</td> <td>Yes</td> </tr> <tr> <td>Limited Waranty</td> <td>1 Year Parts/90 Days Labor</td> </tr> <tr> <td>Menu Language</td> <td>English/Spanish/French</td> </tr> </tbody> </table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD690-blu-ray-dvd-player/technical-specifications</p>	3D Blu-ray Disc Playback	Yes	Wi-Fi Connectivity	Yes	NetCast™ Entertainment Access	Yes	Internet Services	Netflix®, Vudu™, YouTube™ and Roxio® CinemaNow	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV	Home Link Playable Content Format	DivX®/DivX HD, MPEG2 TS/PS, MPEG1 SS, XVID, MKV, AVI, WMA, MP3, AC3, AAC, JPEG, PNG	SimpLink™ connectivity	Yes	Limited Waranty	1 Year Parts/90 Days Labor	Menu Language	English/Spanish/French
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U.S. Patent No. 6,324,150

Exhibit A1

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	<p>LHB306 BLU-RAY HOME THEATER SYSTEM</p> <p>LHB306</p> <p>- SUMMARY</p> <table><tbody><tr><td>Blu-ray Support</td><td>Yes</td></tr><tr><td>Full HD 1080p resolution</td><td>Yes</td></tr><tr><td>No. of HDMI Ports</td><td>1</td></tr><tr><td>Disc Capacity</td><td>1</td></tr><tr><td>Disc Playback Capability</td><td>Blu-ray Disc™, BD-R/RE, DVD, DVD-R, DVD-RW</td></tr><tr><td>Video Content Formats</td><td>MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, AVCHD, DivX/DivX HD, MKV</td></tr><tr><td>Surround Sound</td><td>5.1 Channel</td></tr><tr><td>Total Output Power</td><td>850W</td></tr><tr><td>Simplink™ connectivity</td><td>Yes</td></tr><tr><td>Limited Waranty</td><td>1 Year Parts/90 Days Labor</td></tr></tbody></table> <p>Source: http://www.lg.com/us/home-theater-systems/lg-LHB306-home-theater-system</p>	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	No. of HDMI Ports	1	Disc Capacity	1	Disc Playback Capability	Blu-ray Disc™, BD-R/RE, DVD, DVD-R, DVD-RW	Video Content Formats	MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, AVCHD, DivX/DivX HD, MKV	Surround Sound	5.1 Channel	Total Output Power	850W	Simplink™ connectivity	Yes	Limited Waranty	1 Year Parts/90 Days Labor
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	<p style="text-align: center;">LG Blu-Ray Player</p> <p>BLU-RAY PLAYER BD350</p> <ul style="list-style-type: none"> • BLU-RAY • 1080P UPSCALING • DOLBY TRUEHD AND DTS-HD AUDIO • USB PLUS <div style="display: flex; justify-content: space-between; align-items: center;"> WHERE TO BUY ★★★★★ 5/5 View all 59 reviews </div> <div style="display: flex; justify-content: space-between; align-items: center;"> <input type="checkbox"/> ADD TO COMPARE </div> <div style="text-align: center; margin-top: 20px;">  </div> <div style="display: flex; justify-content: space-between; align-items: center; margin-top: 10px;"> Home > Blu-ray / DVD Players > LG BD350 FEATURES TECHNICAL SPECIFICATIONS REVIEWS PRODUCT SUPPORT </div> <div style="margin-top: 20px;"> <p>BLU-RAY PLAYER</p> <p>BD350</p> <p><input checked="" type="checkbox"/> PICTURE & SOUND</p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Video DAC</td> <td style="width: 50%;">108MHz/10bit</td> </tr> <tr> <td>1080p Upscaling</td> <td>Yes</td> </tr> <tr> <td>Audio DAC</td> <td>192KHz/24bit</td> </tr> </table> <p style="text-align: right;">+ EXPAND ALL Specs</p> </div>	Video DAC	108MHz/10bit	1080p Upscaling	Yes	Audio DAC	192KHz/24bit
Video DAC	108MHz/10bit						
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U.S. Patent No. 6,324,150**Exhibit A1**

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	<p>- PLAYABLE DISC</p> <table> <tbody> <tr><td>BD-ROM</td><td>Yes</td></tr> <tr><td>BD-R</td><td>Yes</td></tr> <tr><td>BD-RE</td><td>Yes</td></tr> <tr><td>DVD (PAL / NTSC)</td><td>Yes/Yes</td></tr> <tr><td>DVD+RW/+R</td><td>Yes</td></tr> <tr><td>DVD-RW / -R (VR/ Video Mode)</td><td>Yes</td></tr> <tr><td>CD-R/RW</td><td>Yes</td></tr> <tr><td>AUDIO-CD</td><td>Yes</td></tr> <tr><td>DTS CD</td><td>Yes</td></tr> </tbody> </table> <hr/> <p>+ CONVENIENCE</p> <hr/> <p>+ CONNECTION</p> <hr/> <p>+ REAR PANEL</p> <hr/> <p>+ DIMENSION</p> <hr/> <p>Design, features and specifications subject to change without notice. BACK TO TOP ▲</p> <p>Play the latest Blu-ray movies in full high definition, as well as existing DVD's</p> <p>Source: http://www.lg.com/uk/blu-ray-dvd-players/lg-BD350-blu-ray-player</p>	BD-ROM	Yes	BD-R	Yes	BD-RE	Yes	DVD (PAL / NTSC)	Yes/Yes	DVD+RW/+R	Yes	DVD-RW / -R (VR/ Video Mode)	Yes	CD-R/RW	Yes	AUDIO-CD	Yes	DTS CD	Yes
BD-ROM	Yes																		
BD-R	Yes																		
BD-RE	Yes																		
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DVD+RW/+R	Yes																		
DVD-RW / -R (VR/ Video Mode)	Yes																		
CD-R/RW	Yes																		
AUDIO-CD	Yes																		
DTS CD	Yes																		

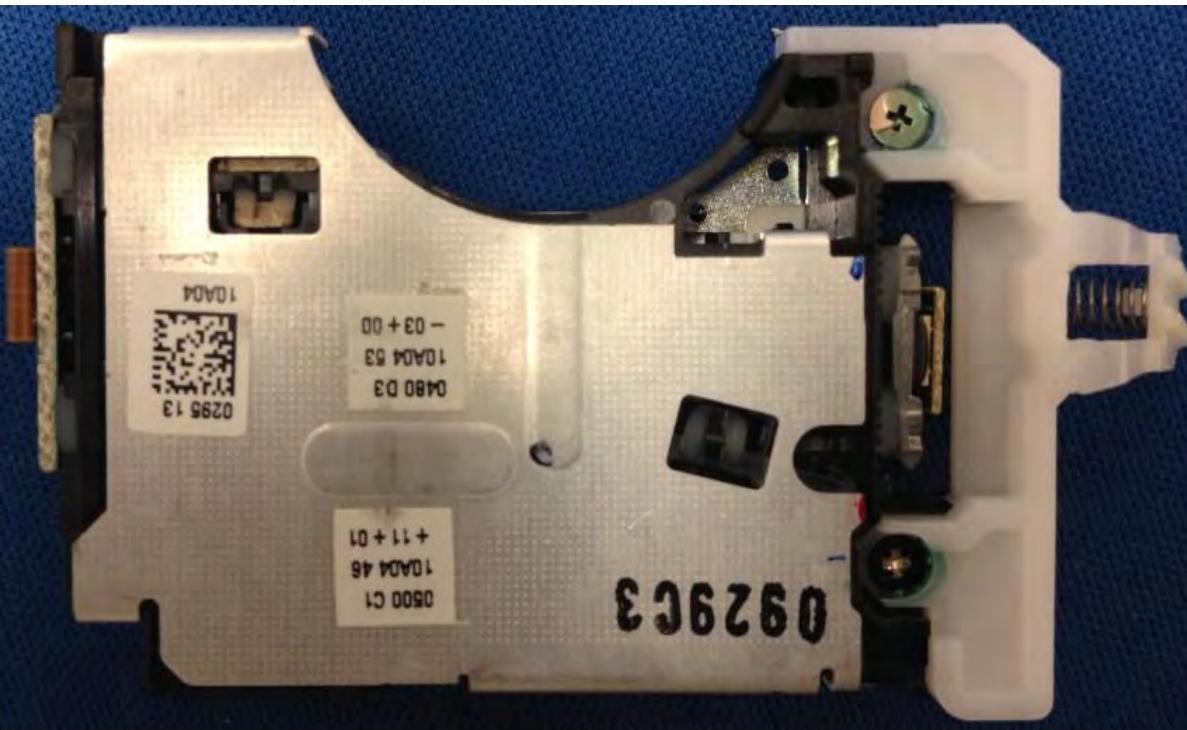
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Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)																
	<p>For my money, the BP320 is the best overall value.</p> <p>cnet · 04/10/2012</p> <p>Discontinued Product</p> <p>Stunning Full HD 1080p And Streaming Entertainment</p> <p>BLU-RAY DISC™ PLAYER WITH SMARTTV</p> <p>BP320</p> <ul style="list-style-type: none"> ▪ LG SMART TV ▪ BLU-RAY DISC™ 1080P PLAYBACK ▪ 1080P UP-SCALING ▪ BUILT-IN WI-FI® <p>WHERE TO BUY ★★★★ 3.9/5 View all 20 reviews</p> <p><input type="checkbox"/> ADD TO COMPARE</p> <p>Home > Blu-ray Players > LG BP320</p> <p>FEATURES TECHNICAL SPECIFICATIONS REVIEWS ASK & ANSWER PRODUCT SUPPORT</p> <p>BLU-RAY DISC™ PLAYER WITH SMARTTV</p> <p>BP320</p> <p>DISC PLAYBACK CAPABILITY</p> <table border="1"> <tbody> <tr> <td>BD-Rom</td> <td>Yes</td> </tr> <tr> <td>BD-R</td> <td>Yes</td> </tr> <tr> <td>BD-RE</td> <td>Yes</td> </tr> <tr> <td>DVD (NTSC)</td> <td>Yes</td> </tr> <tr> <td>DVD (PAL)</td> <td>Yes</td> </tr> <tr> <td>DVD-R</td> <td>Yes</td> </tr> <tr> <td>DVD-RW</td> <td>Yes</td> </tr> <tr> <td>DVD+R</td> <td>Yes</td> </tr> </tbody> </table> <p>COLLAPSE ALL Specs</p> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BP320-blu-ray-dvd-player</p>	BD-Rom	Yes	BD-R	Yes	BD-RE	Yes	DVD (NTSC)	Yes	DVD (PAL)	Yes	DVD-R	Yes	DVD-RW	Yes	DVD+R	Yes
BD-Rom	Yes																
BD-R	Yes																
BD-RE	Yes																
DVD (NTSC)	Yes																
DVD (PAL)	Yes																
DVD-R	Yes																
DVD-RW	Yes																
DVD+R	Yes																

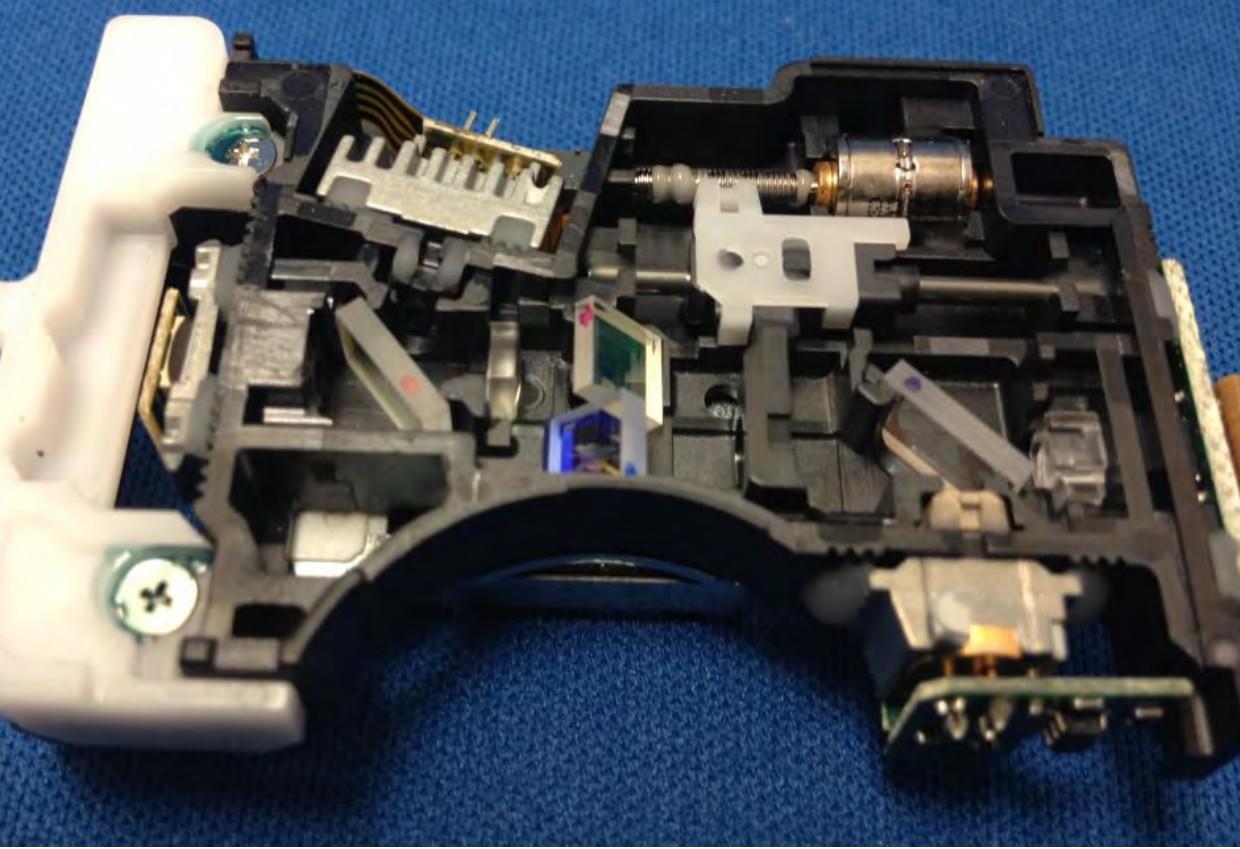
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p><i>Photograph of the optical pick up head from bottom from BD530</i></p> 

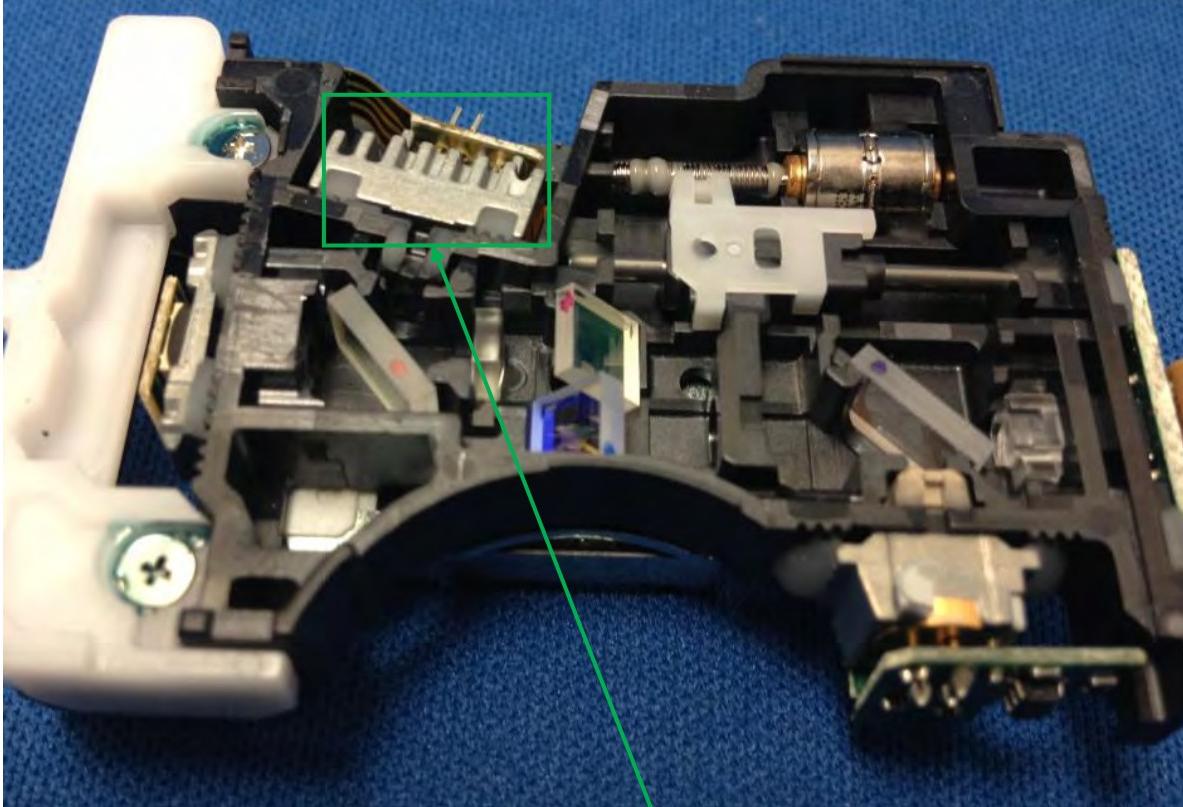
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
	<p><i>Photograph of the optical pickup head from bottom with the back plate removed from BD530</i></p>  A photograph showing the internal components of an optical pickup head from a BD530 player. The image is taken from a low angle, looking into the housing. The internal parts include a white plastic frame, various metal and plastic gears, a blue laser assembly, and a black base plate. The background is a solid blue color.

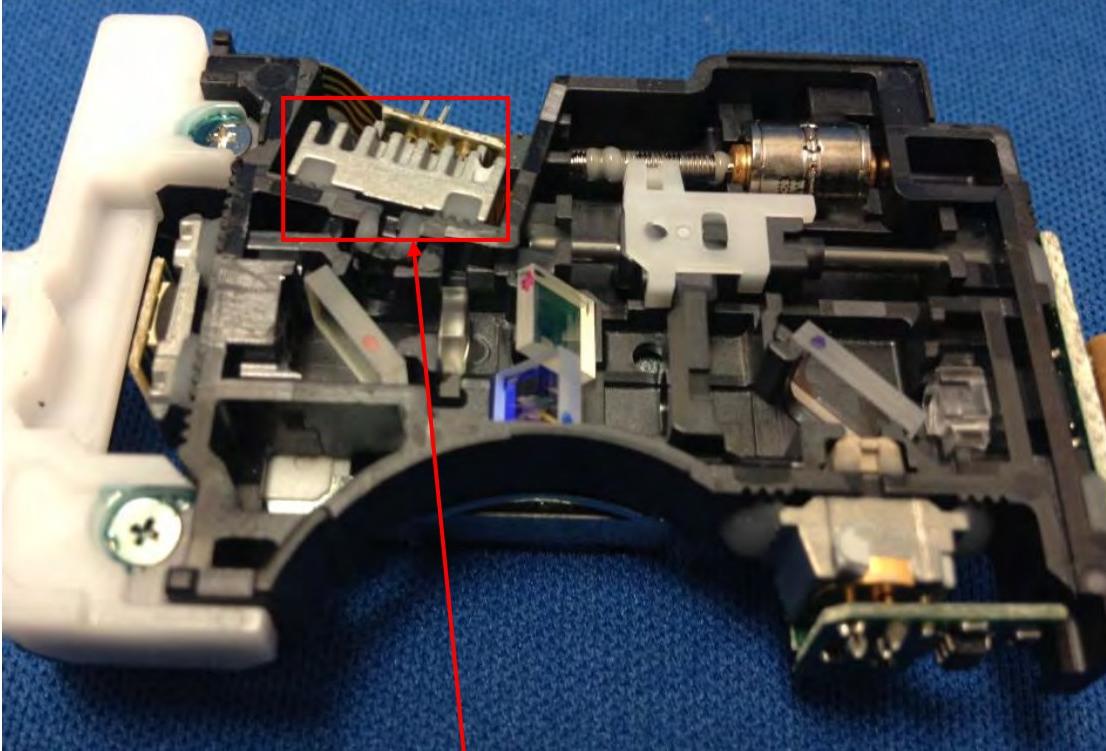
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9b. a first laser beam generator and	 <p data-bbox="1129 1232 1425 1346">FIRST AND SECOND LASER BEAM GENERATORS</p>

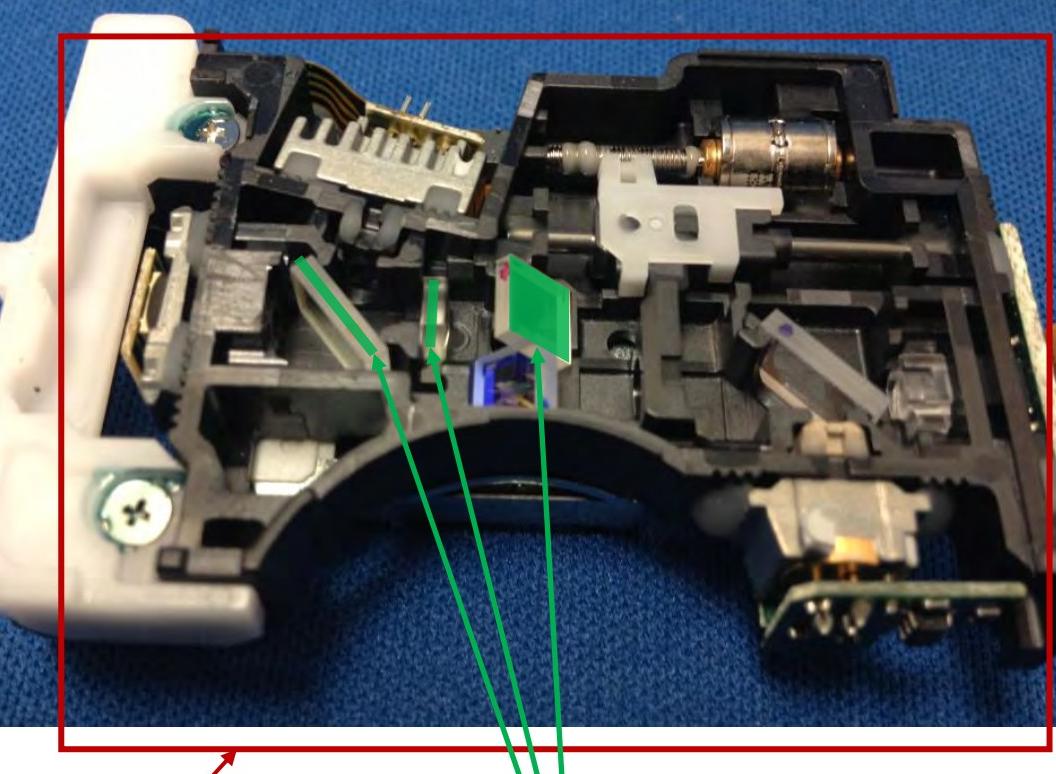
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9c. a second laser beam generator, for generating a first laser beam and a second laser beam of different wavelengths,	 <p data-bbox="925 1192 1438 1334">FIRST AND SECOND LASER BEAM GENERATORS EACH CAPABLE OF GENERATING A LASER BEAM OF DIFFERENT WAVELENGTHS</p>

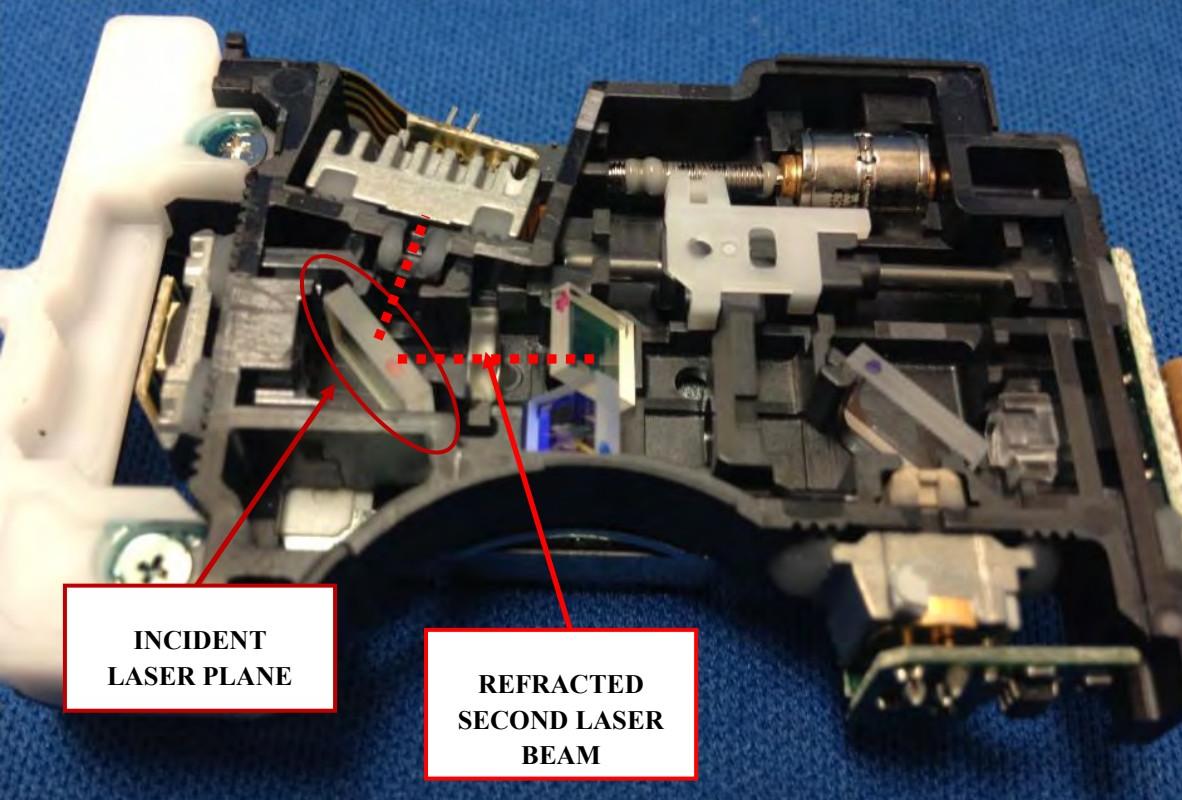
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9d. a beam shaper, allocated in optical paths of said first and second laser beams, and formed with a plurality of planes locating in different angles, comprising:	 <p data-bbox="608 1258 868 1323">BEAM SHAPER</p> <p data-bbox="1058 1209 1353 1323">PLURALITY OF PLANES</p>

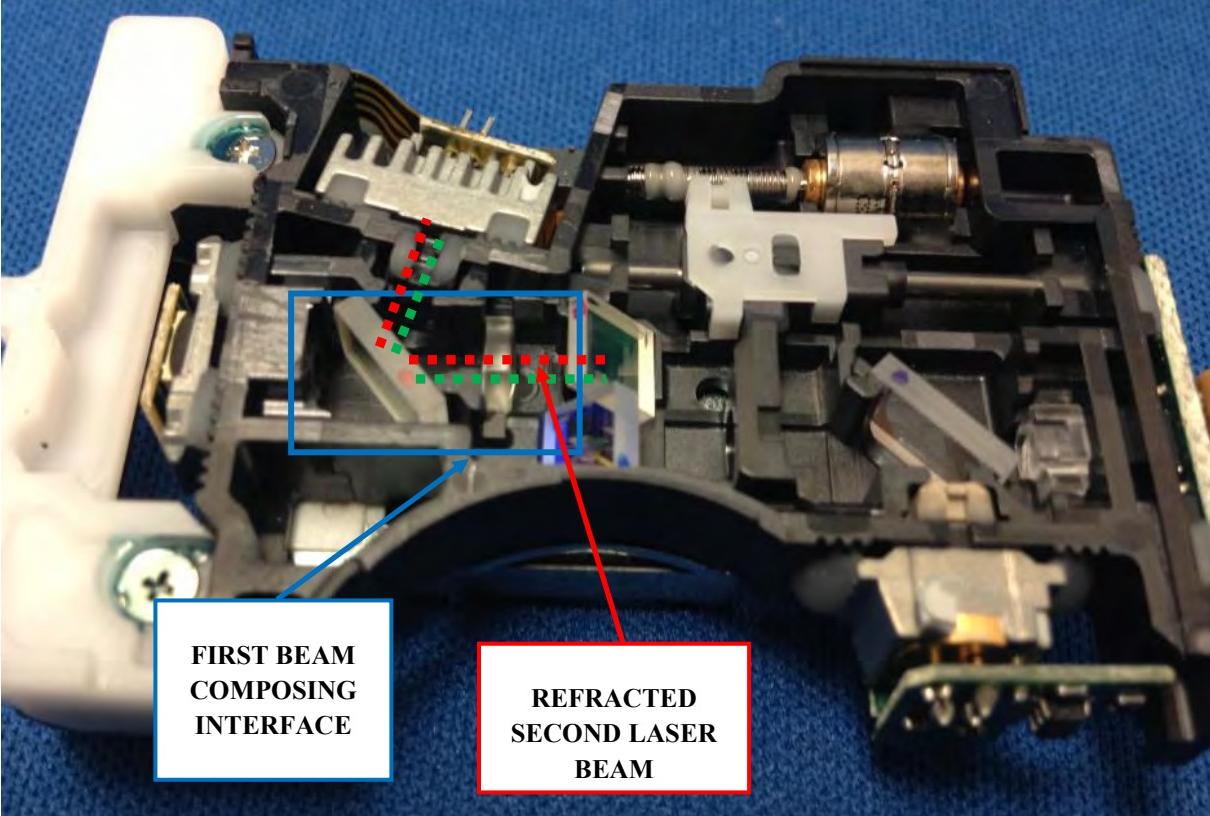
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9e. an incident laser plane for refracting said second laser beam, to generate a refracted second laser beam;	 <p data-bbox="713 997 903 1062">INCIDENT LASER PLANE</p> <p data-bbox="1058 1041 1269 1144">REFRACTED SECOND LASER BEAM</p> <p data-bbox="618 1196 1305 1237">Legend: SECOND LASER BEAM -----</p>

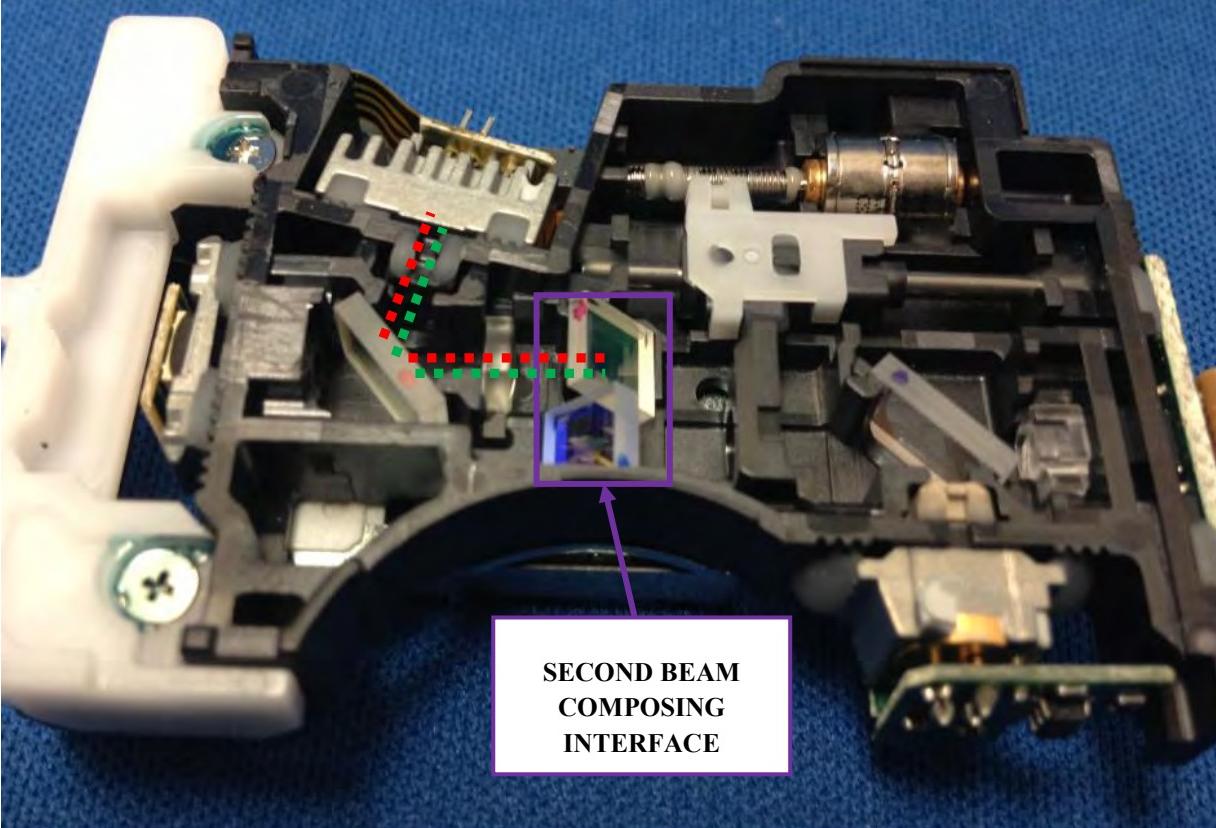
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9f. a first beam-composing interface for composing said refracted second laser beam with said first laser beam into an optical output path;	 <p data-bbox="614 1209 1332 1334">Legend: SECOND LASER BEAM FIRST LASER BEAM</p>

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9g. a second beam-composing interface for composing said first and second laser beams,	 <p data-bbox="1079 992 1353 1139">SECOND BEAM COMPOSING INTERFACE</p> <p data-bbox="620 1225 1317 1318">Legend: SECOND LASER BEAM FIRST LASER BEAM</p>

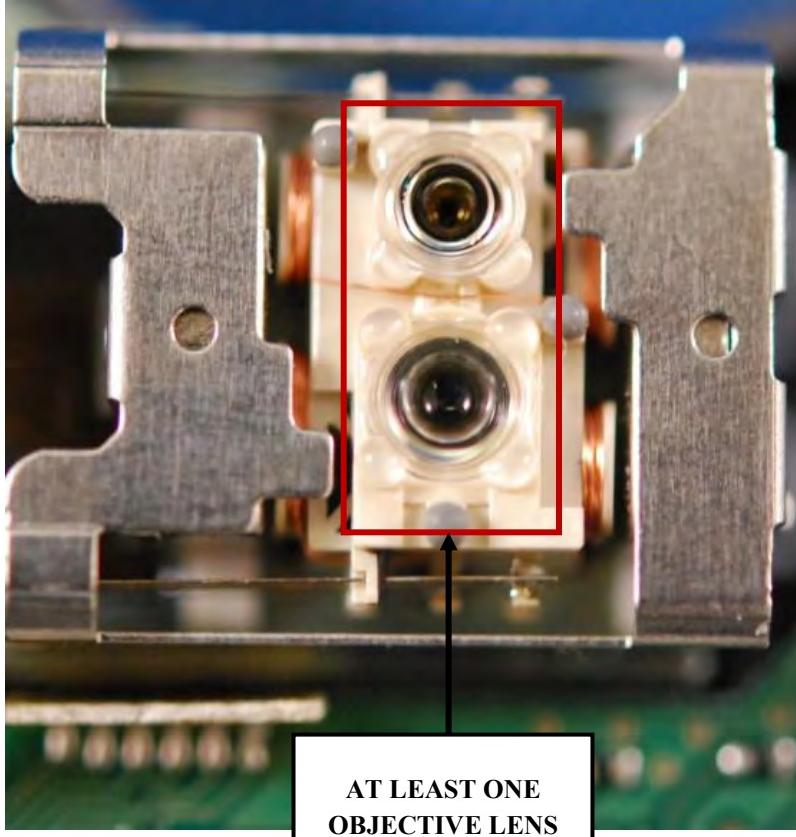
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
<p>9h. after they are being composed by said first beam-composing interface, with a third laser beam into said optical output path;</p>	<p>OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <p>Legend:</p> <ul style="list-style-type: none"> SECOND LASER BEAM ••••• FIRST LASER BEAM •••••• THIRD LASER BEAM •••••••

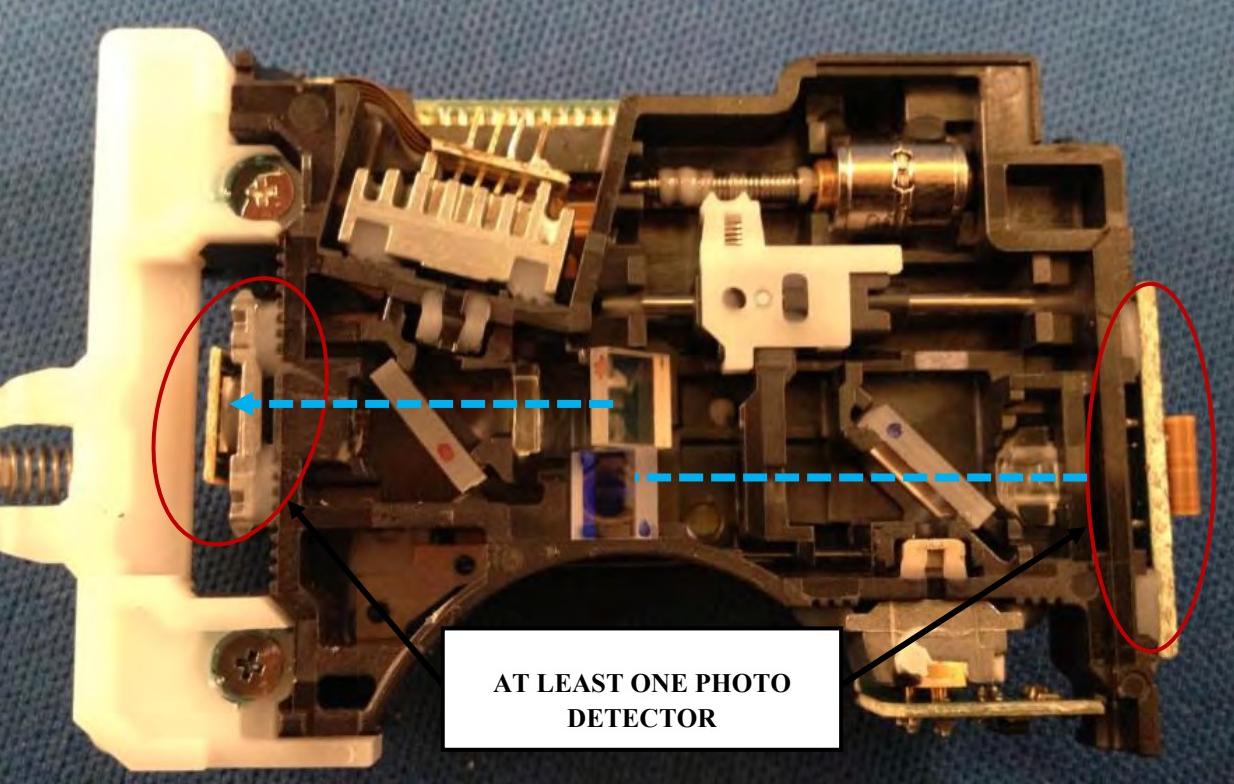
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9i. an objective lens for focusing laser beams in said optical output path onto said optical recording media as an reading/writing spot; and	<p><i>Photograph of the objective lens from BD530</i></p>  <p>AT LEAST ONE OBJECTIVE LENS</p>

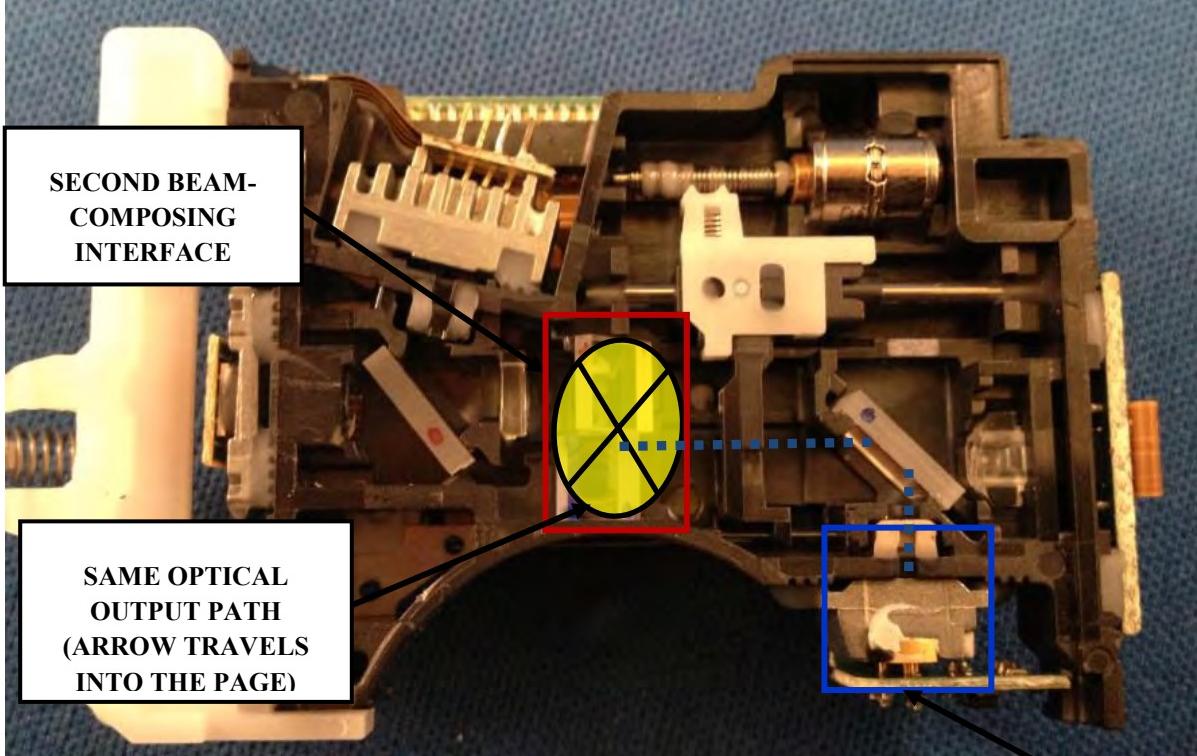
U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
9j. a photo detector for transforming a reflective laser beam returning from said optical recording media into corresponding signals and accomplishing data retrieval;	 <p data-bbox="1085 1073 1389 1132">AT LEAST ONE PHOTO DETECTOR</p> <p data-bbox="620 1225 1339 1258">Legend: REFLECTIVE LASER BEAM</p>

U.S. Patent No. 6,324,150

Exhibit A1

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (LG BD530, BD550, BD640, BD650, BD670, BD690, LHB306, LHB976, BD350, BD320, BD551)
<p>9k. wherein said third laser beam is an incident laser beam generated by a third laser beam generator, refracted to said second beam-composing interface and composed into same optical output path.</p>	 <p>SECOND BEAM-COMPOSING INTERFACE</p> <p>SAME OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <p>Legend: THIRD LASER BEAM </p> <p>THIRD LASER BEAM GENERATOR</p>

U.S. Patent No. 6,324,150**Exhibit A2**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9. An optical pickup head ¹	<p>Each element of this claim, except where noted otherwise, and each element of the asserted claims dependent thereon, is present literally and/or under the doctrine of equivalents in the accused LG Products.²</p> <p>ITRI provides these infringement contentions before obtaining complete discovery and disclosures from LG. Specifically, LG has not produced documentation sufficient to demonstrate how each and every optical pickup head operates, and has not produced documentation sufficient to demonstrate that it has identified every LG document corresponding to accused optical pickup heads. Further, LG has “confirmed” that particular LG products utilize certain optical pickup heads that are not borne out by physical inspection. ITRI expects that LG will produce information to fully meet its discovery obligations regarding LG’s instrumentalities beyond that which is publically available. Accordingly, ITRI reserves the right to modify these infringement contentions based upon LG’s document production and required disclosures.</p>

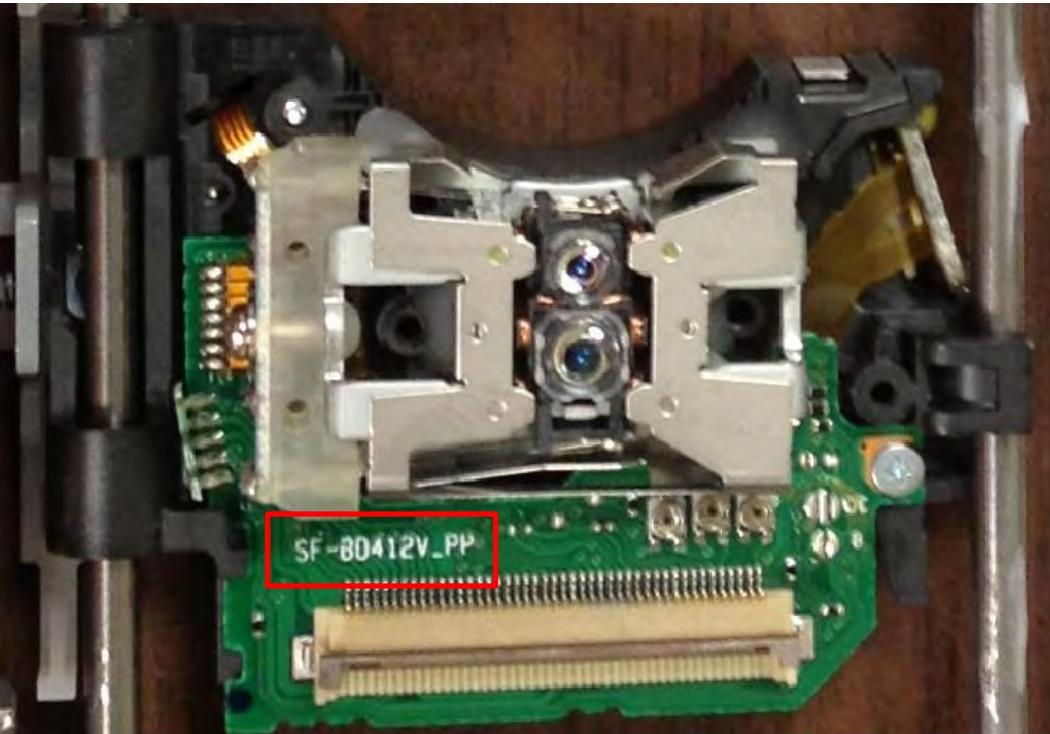
¹ ITRI contends that the preamble to this claim is not limiting in any manner. ITRI’s references to the accused product regarding the preamble are for illustration only and do not constitute an admission that the preamble is limiting.

² The LG Products often practice the claim elements in numerous alternative ways in accordance with the present chart. The LG Products should be assumed to act alone or in combination as referenced herein and interpreted in the singular or plural accordingly. LG further provides the LG Products as well as the instructions to customers/users causing them to use the accused products in an infringing manner, including, without limitation, in their default and expected uses.

To the extent each element of this claim, and the asserted claims dependent thereon are not present literally in the accused LG Products, each element is present under the doctrine of equivalents because there is no substantial difference between the elements of the asserted claims and the corresponding functionality in the accused instrumentality, *i.e.*, the corresponding functionality in the accused product performs substantially the same function, in substantially the same way to achieve substantially the same results as the claimed elements.

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p>Upon physical inspection, ITRI contends the following products optical pickup units (“OPUs”) are identical for purposes of infringement analysis: LG BD590, LHB335, LHB535, BD390, and BX580. Moreover, physical inspection of the BD590, BD580, and LHB535 show that these products contain marking identifying the OPU as SF-BD412V.</p>  <p><i>Photograph of OPU from LHB535.</i></p>

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p data-bbox="1180 414 1362 437">REDACTED</p> <p data-bbox="587 442 988 483">[REDACTED]</p> <p data-bbox="623 528 642 719">[REDACTED]</p> <p data-bbox="642 528 1425 600">[REDACTED]</p> <p data-bbox="642 600 1425 674">[REDACTED]</p> <p data-bbox="642 674 1425 719">[REDACTED]</p> <p data-bbox="587 763 1976 806">[REDACTED]</p> <p data-bbox="587 806 1902 847">[REDACTED]</p> <p data-bbox="587 847 1957 887">[REDACTED]</p> <p data-bbox="587 887 1586 920">[REDACTED]</p>

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	REDACTED

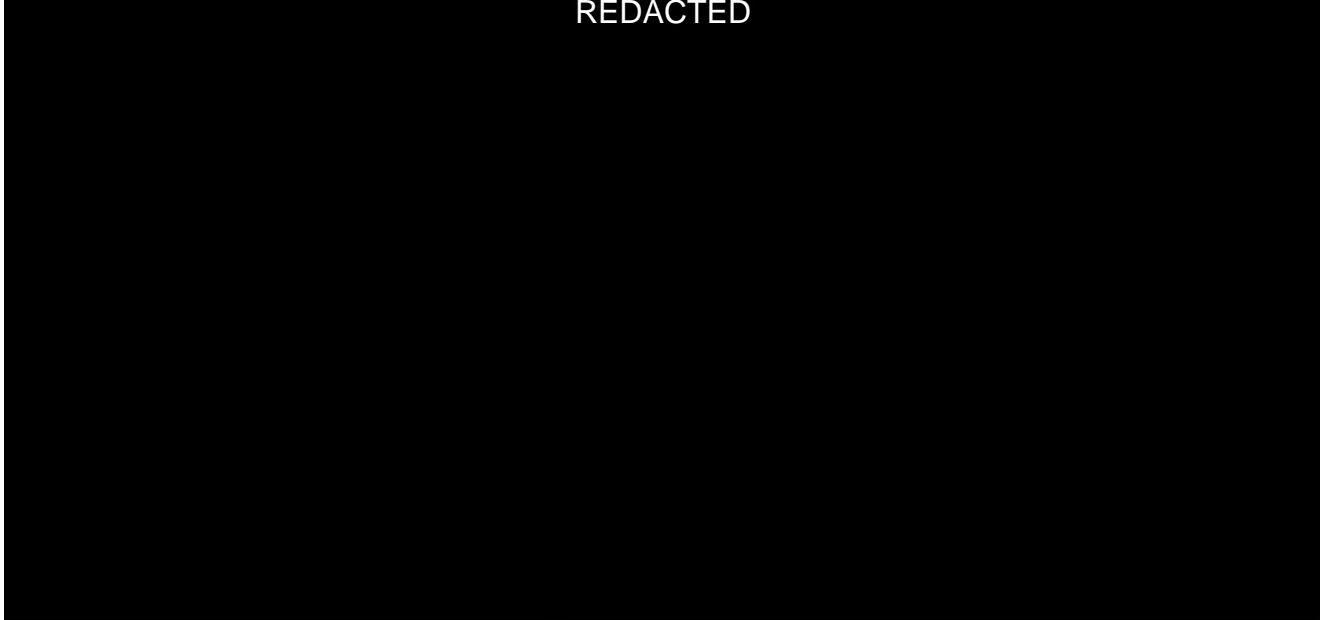
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p>REDACTED</p>   

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p>REDACTED</p>  <p>REDACTED</p> 

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p data-bbox="566 437 1193 470"><i>Photograph of LG BD590 Wi-Fi Blu-ray Player</i></p> 

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of LG LHB335 Home Theatre Blu-ray Player</i></p> 

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of LG LHB535 Home Theatre Blu-ray Player</i></p>

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of LG BD390 Wi-Fi Blu-ray Player</i></p> 

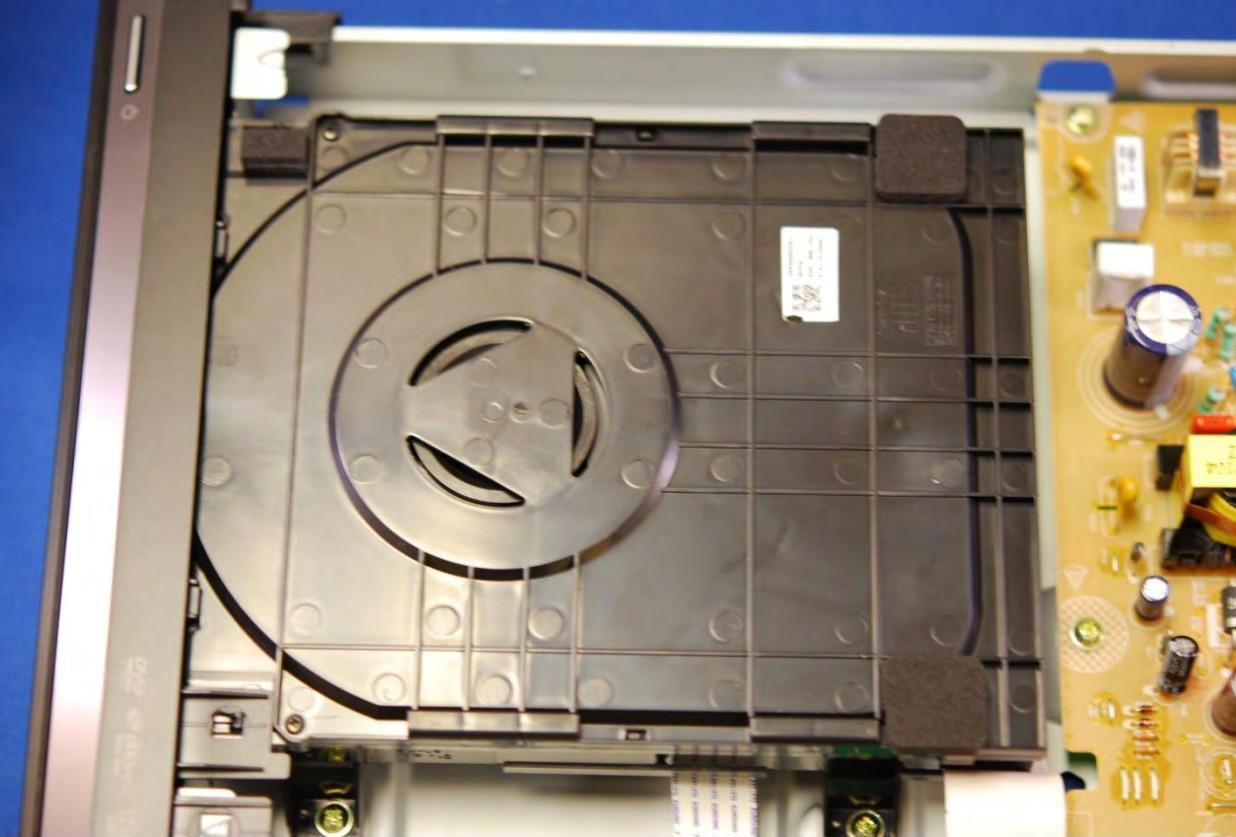
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of LG BX580 Wi-Fi Blu-ray Player</i></p> 

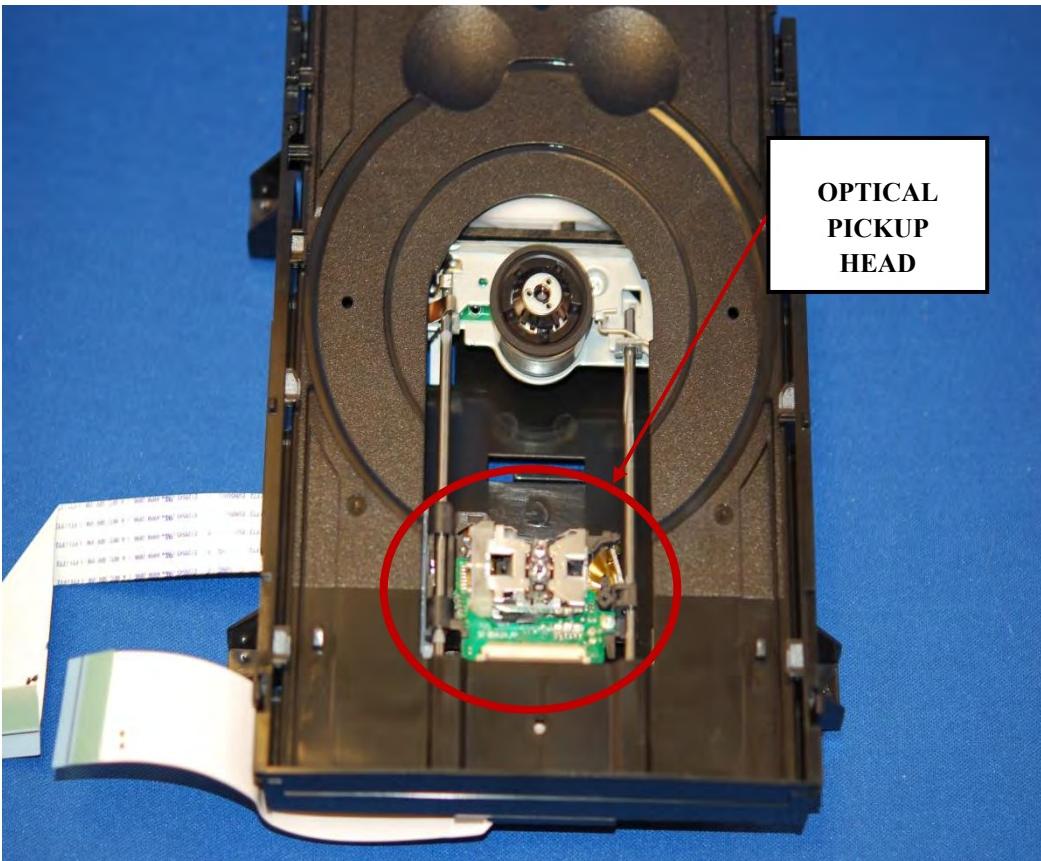
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of optical disk drive module from BD590</i></p> 

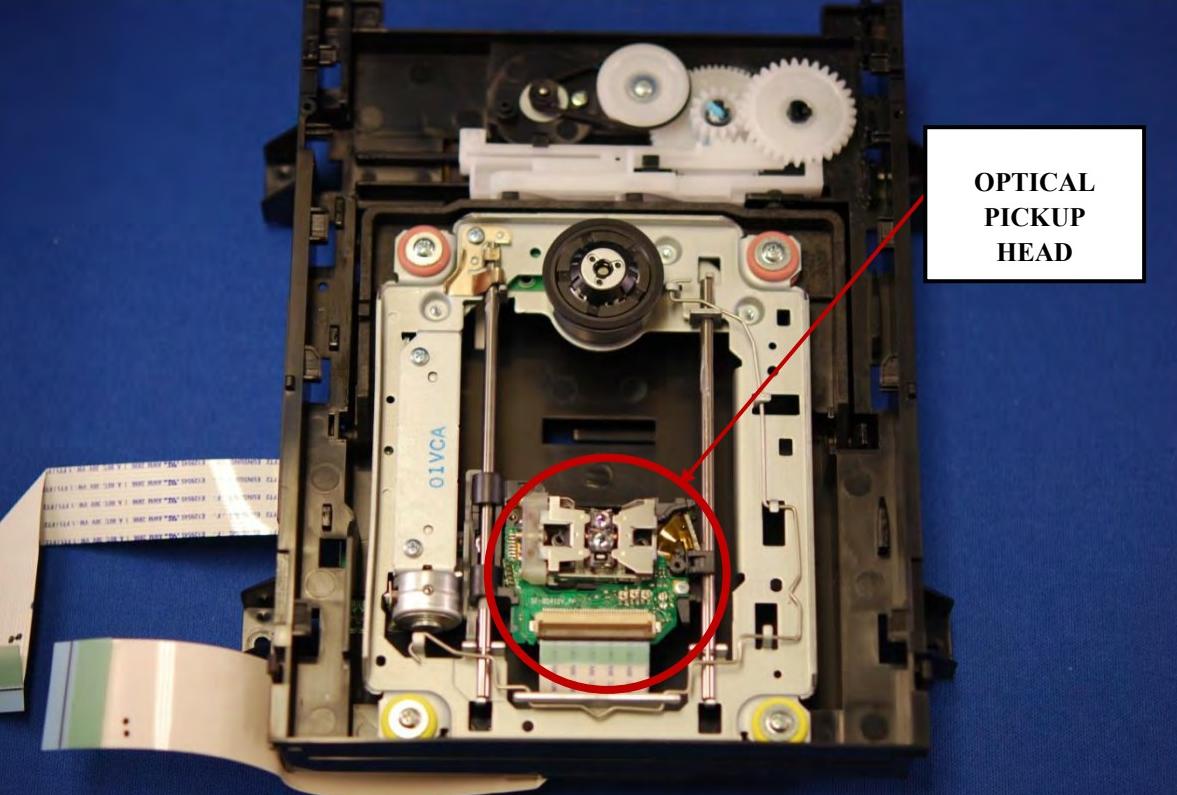
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Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph showing the optical disk drive mechanism with the panel cover removed from BD590</i></p>  <p>OPTICAL PICKUP HEAD</p>

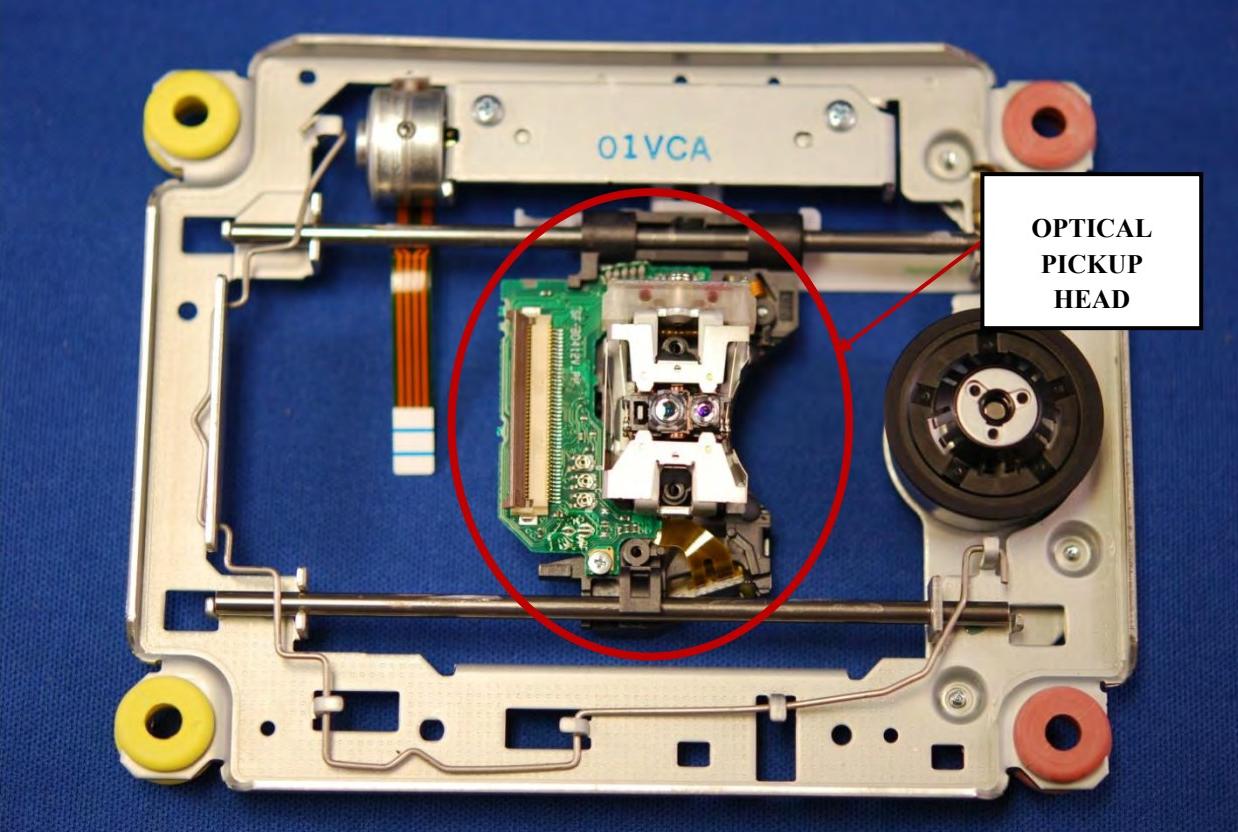
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph showing the optical disk drive mechanism without the top panel cover from BD590</i></p>  <p>OPTICAL PICKUP HEAD</p>

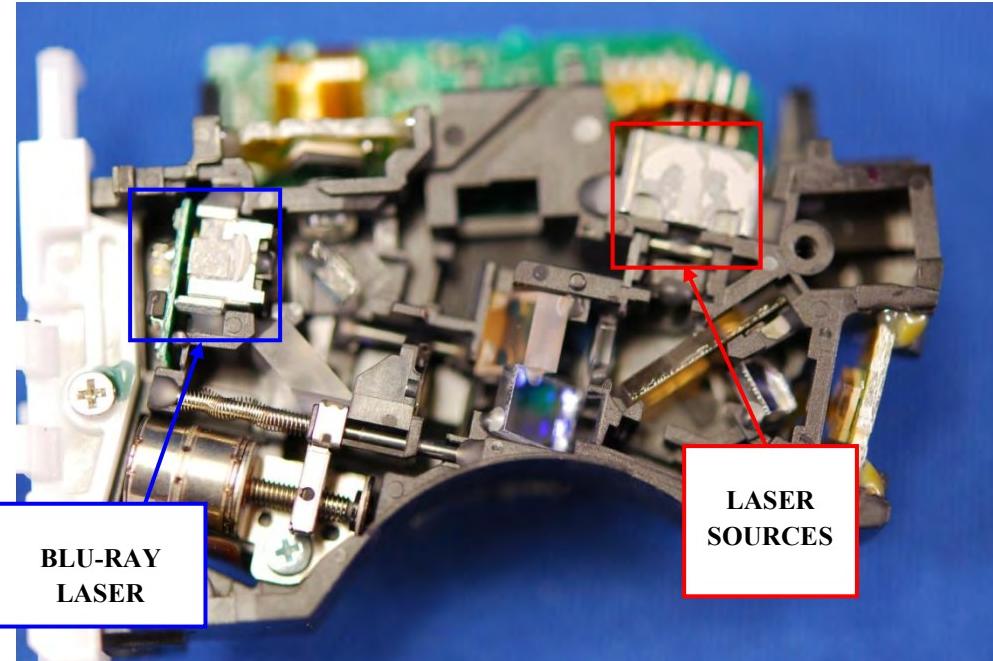
U.S. Patent No. 6,324,150

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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of the optical disk drive mechanism without the top and bottom panel covers from BD590</i></p>  <p>OPTICAL PICKUP HEAD</p>

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9a. using multiple laser sources of different wavelengths for reading/writing data on optical recording media of varying densities, comprising:	<p><i>Photograph of the optical pick up head from bottom from BD590</i></p> 

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)																		
	<p>BLU-RAY DISC™ PLAYER</p> <p>BD270</p> <p> DOWNLOAD PDF COLLAPSE ALL SPECS</p> <hr/> <p>SUMMARY</p> <table> <tbody> <tr> <td>Blu-ray Support</td> <td>Yes</td> </tr> <tr> <td>Full HD 1080p resolution</td> <td>Yes</td> </tr> <tr> <td>Upscale Standard DVDs</td> <td>Yes</td> </tr> <tr> <td>No. of HDMI Ports</td> <td>1</td> </tr> <tr> <td>Express Reaction Startup</td> <td>Yes</td> </tr> <tr> <td>Disc Capacity</td> <td>1</td> </tr> <tr> <td>Disc Playback Capability</td> <td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td> </tr> <tr> <td>Video Content Format</td> <td>DVD, MP3, WMA, JPG</td> </tr> <tr> <td>Limited Warranty</td> <td>1 Year Parts/90 Days Labor</td> </tr> </tbody> </table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD270-blu-ray-dvd-player</p>	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DVD, MP3, WMA, JPG	Limited Warranty	1 Year Parts/90 Days Labor
Blu-ray Support	Yes																		
Full HD 1080p resolution	Yes																		
Upscale Standard DVDs	Yes																		
No. of HDMI Ports	1																		
Express Reaction Startup	Yes																		
Disc Capacity	1																		
Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW																		
Video Content Format	DVD, MP3, WMA, JPG																		
Limited Warranty	1 Year Parts/90 Days Labor																		

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p>PRODUCT SUPPORT</p> <p>TV/Audio/Video > Blu-ray Players > BD300</p> <hr/> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  <p>BD300</p> <p>Search For Another Model</p> </div> <div style="width: 50%;"> <p>Download</p> <p>Manuals & Documents</p> <p>Software Update</p> <p>Warranty Info</p> <p>Labor : 90 Days</p> <p>Parts : 1 Year</p> <p>More</p> </div> </div> <div style="margin-top: 20px;"> <p>Playable Discs</p> <hr/> <p>Blu-ray Disc</p> <ul style="list-style-type: none"> - Discs such as movies that can be purchased or rented - BD-R/RE discs that contain audio titles, MP3, WMA, or Photo files. <hr/> <p>DVD-VIDEO (8 cm / 12 cm disc)</p> <p>Discs such as movies that can be purchased or rented</p> <hr/> <p>DVD-R (8 cm / 12 cm disc)</p> <ul style="list-style-type: none"> - Video mode and finalized only - Supports the dual layer disc also - AVCHD format <hr/> <p>DVD-RW (8 cm / 12 cm disc)</p> <ul style="list-style-type: none"> - VR mode, Video mode and finalized only - AVCHD format <hr/> <p>DVD+R (8 cm / 12 cm disc)</p> <ul style="list-style-type: none"> - Finalized disc only - Supports the dual layer disc also - AVCHD format <hr/> <p>DVD+RW (8 cm / 12 cm disc)</p> <ul style="list-style-type: none"> - Video mode and finalized only - AVCHD format <hr/> <p>Audio CD (8 cm / 12 cm disc)</p> <p>Music CDs or CD-Rs/CD-RWs in music CD format that can be purchased</p> <hr/> <p>CD-R/CD-RW (8 cm / 12 cm disc)</p> <p>CD-R/CD-RW discs that contain audio titles, MP3, WMA, or Photo files.</p> </div>

Source: Official owner's manual

http://www.lg.com/lgecs.downloadFile.ldwf?DOC_ID=KROWM000184735&ORIGINAL_NAME_b1_a1=BD300-N_AUSALLK_ENG_090212.pdf&FILE_NAME=KROWM000184735.pdf&TC=DwnCmd

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)																										
	<p>NETWORK BLU-RAY DISC™ PLAYER</p> <p>BD370</p> <p> DOWNLOAD PDF COLLAPSE ALL SPECS</p> <p>SUMMARY</p> <table> <tbody> <tr> <td>NetCast™ Entertainment Access</td> <td>Yes</td> </tr> <tr> <td>Internet Services</td> <td>Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®</td> </tr> <tr> <td>Blu-ray Support</td> <td>Yes</td> </tr> <tr> <td>Full HD 1080p resolution</td> <td>Yes</td> </tr> <tr> <td>Upscale Standard DVDs</td> <td>Yes</td> </tr> <tr> <td>USB 2.0 connectivity</td> <td>Yes</td> </tr> <tr> <td>No. of HDMI Ports</td> <td>1</td> </tr> <tr> <td>Express Reaction Startup</td> <td>Yes</td> </tr> <tr> <td>Disc Capacity</td> <td>1</td> </tr> <tr> <td>Disc Playback Capability</td> <td>Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW</td> </tr> <tr> <td>Video Content Format</td> <td>DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV</td> </tr> <tr> <td>SimpLink™ connectivity</td> <td>Yes</td> </tr> <tr> <td>Limited Warranty</td> <td>1 Year Parts/90 Days Labor</td> </tr> </tbody> </table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BD370-blu-ray-dvd-player</p>	NetCast™ Entertainment Access	Yes	Internet Services	Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD±R/RW, Audio CD, CD-R/RW	Video Content Format	DivX®/DivX HD, MPEG4 AVC, HP@L4.1, MPEG2, HP@ML, SMPTE VC1, AP@L3, MPEG2, HP@ML, AVCHD, MKV	SimpLink™ connectivity	Yes	Limited Warranty	1 Year Parts/90 Days Labor
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	 <p>Key Features</p> <ul style="list-style-type: none"> • Media Library • Home Link • Express Reaction Startup • Integrated Wi-Fi Connectivity • Blu-ray and DVD Disc Playback • USB 2.0 Media Host • NetCast™ Entertainment Access (Wi-Fi Ready)™ • Superior Audio Performance • SimLink <p>Download PDF Spec Sheet: English Expand all Specs</p> <table border="1"> <thead> <tr> <th colspan="2">SUMMARY</th> </tr> </thead> <tbody> <tr> <td>Wi-Fi Connectivity</td> <td>Yes</td> </tr> <tr> <td>NetCast™ Entertainment Access</td> <td>Yes</td> </tr> <tr> <td>Internet Services</td> <td>Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®</td> </tr> <tr> <td>Blu-ray Support</td> <td>Yes</td> </tr> <tr> <td>Full HD 1080p resolution</td> <td>Yes</td> </tr> <tr> <td>Upscale Standard DVDs</td> <td>Yes</td> </tr> <tr> <td>USB 2.0 connectivity</td> <td>Yes</td> </tr> <tr> <td>No. of HDMI Ports</td> <td>1</td> </tr> <tr> <td>Express Reaction Startup</td> <td>Yes</td> </tr> <tr> <td>Disc Capacity</td> <td>1</td> </tr> <tr> <td>Disc Playback Capability</td> <td>Blu-ray™ Disc, BD-R/RE, DVD, DVD+R/RW, Audio CD, CD-R/RW</td> </tr> <tr> <td>Video Content Format</td> <td>DivX®/DivX HD, MPEG4 AVC, H.264, MPEG2, H.263, SMPTE VC1, AP@L3, MPEG2, H.264, AVCHD, MKV</td> </tr> </tbody> </table> <p>Source: http://www.lg.com/us/tv-audio-video/video/LG-blu-ray-dvd-player-BD590.jsp</p>	SUMMARY		Wi-Fi Connectivity	Yes	NetCast™ Entertainment Access	Yes	Internet Services	Netflix®, Vudu™, YouTube™, Roxio® CinemaNow, Pandora®, Picasa™, AccuWeather®	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	USB 2.0 connectivity	Yes	No. of HDMI Ports	1	Express Reaction Startup	Yes	Disc Capacity	1	Disc Playback Capability	Blu-ray™ Disc, BD-R/RE, DVD, DVD+R/RW, Audio CD, CD-R/RW	Video Content Format	DivX®/DivX HD, MPEG4 AVC, H.264, MPEG2, H.263, SMPTE VC1, AP@L3, MPEG2, H.264, AVCHD, MKV
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U.S. Patent No. 6,324,150**Exhibit A2**

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	<p>TV/Audio/Video > Blu-ray Players > BX585</p> <hr/> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p>BX585</p> <p>Download</p> <p>Manuals & Documents</p> <p>Software Update</p> <p>Warranty Info</p> <p>Labor : 90 Days</p> <p>Parts : 1 Year</p> <p>More</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Playable Discs</p> <table border="0"> <tr> <td style="text-align: center;">  Blu-ray Disc </td> <td> <ul style="list-style-type: none"> - Discs such as movies that can be purchased or rented. </td> </tr> <tr> <td style="text-align: center;">  Blu-ray 3D </td> <td> <ul style="list-style-type: none"> - BD-R/RE discs that contain Movie, Music or Photo files. - "Blu-ray 3D" discs and "Blu-ray 3D ONLY" discs </td> </tr> <tr> <td style="text-align: center;">  DVD </td> <td> <ul style="list-style-type: none"> - DVD-VIDEO (8 cm / 12 cm disc) - Discs such as movies that can be purchased or rented. </td> </tr> <tr> <td style="text-align: center;">  DVD+R </td> <td> <ul style="list-style-type: none"> - Video mode and finalized only - Supports the dual layer disc also - Finalized AVCHD format - DVD+R discs that contain Movie, Music or Photo files. </td> </tr> <tr> <td style="text-align: center;">  DVD-RW </td> <td> <ul style="list-style-type: none"> - VR mode, Video mode and finalized only - Finalized AVCHD format - DVD-RW discs that contain Movie, Music or Photo files. </td> </tr> <tr> <td style="text-align: center;">  DVD+RW </td> <td> <ul style="list-style-type: none"> - Video mode and finalized only - Finalized AVCHD format - DVD+RW discs that contain Movie, Music or Photo files. </td> </tr> <tr> <td style="text-align: center;">  Audio CD </td> <td> <ul style="list-style-type: none"> - (8 cm / 12 cm disc) </td> </tr> <tr> <td style="text-align: center;">  CD-R/RW </td> <td> <ul style="list-style-type: none"> - CD-R/RW discs that contain audio titles, Movie, Music or Photo files. </td> </tr> </table> </div> </div> <p>Source: http://www.lg.com/us/support-product/lg-BX585#</p> <p>BX585 owner's manual: http://www.lg.com/lgecs.downloadFile.ldwf?DOC_ID=KROWM000242317&ORIGINAL_NAME_b1_a1=BX582-N-BUSALLG-ENG.pdf&FILE_NAME=KROWM000242317.pdf&TC=DwnCmd</p>	 Blu-ray Disc	<ul style="list-style-type: none"> - Discs such as movies that can be purchased or rented. 	 Blu-ray 3D	<ul style="list-style-type: none"> - BD-R/RE discs that contain Movie, Music or Photo files. - "Blu-ray 3D" discs and "Blu-ray 3D ONLY" discs 	 DVD	<ul style="list-style-type: none"> - DVD-VIDEO (8 cm / 12 cm disc) - Discs such as movies that can be purchased or rented. 	 DVD+R	<ul style="list-style-type: none"> - Video mode and finalized only - Supports the dual layer disc also - Finalized AVCHD format - DVD+R discs that contain Movie, Music or Photo files. 	 DVD-RW	<ul style="list-style-type: none"> - VR mode, Video mode and finalized only - Finalized AVCHD format - DVD-RW discs that contain Movie, Music or Photo files. 	 DVD+RW	<ul style="list-style-type: none"> - Video mode and finalized only - Finalized AVCHD format - DVD+RW discs that contain Movie, Music or Photo files. 	 Audio CD	<ul style="list-style-type: none"> - (8 cm / 12 cm disc) 	 CD-R/RW	<ul style="list-style-type: none"> - CD-R/RW discs that contain audio titles, Movie, Music or Photo files.
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Source: http://www.lg.com/us/products/documents/lg_he_dav_ss_LHB975.pdf

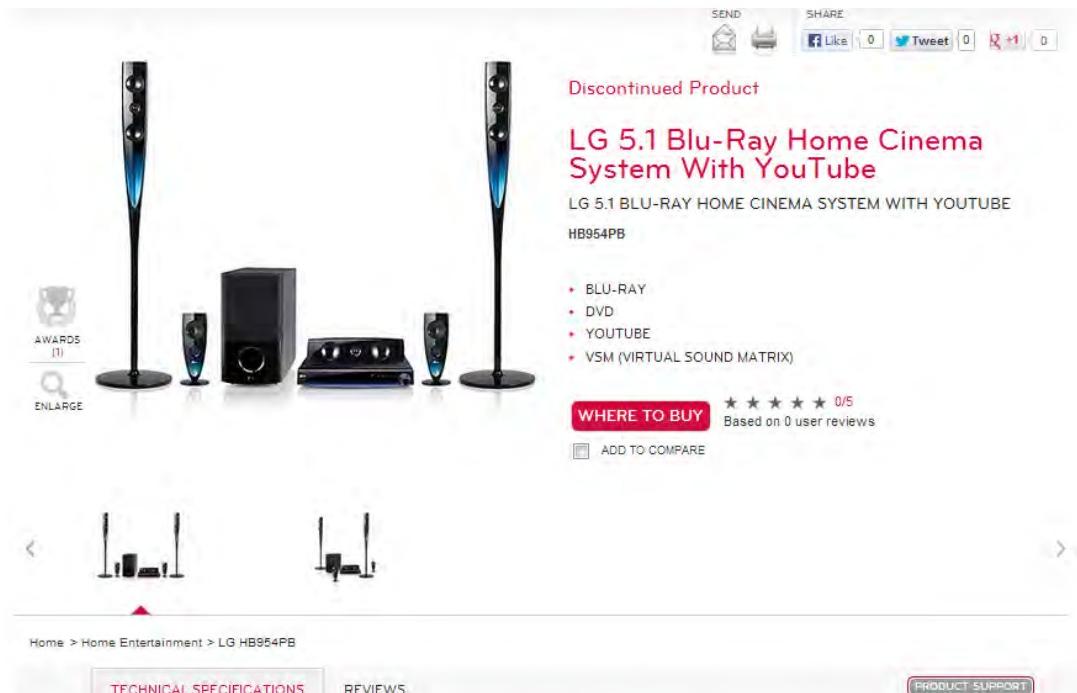
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	<p>LG NETWORK BLU-RAY HOME THEATER SYSTEM</p> <p>LHB977</p> <p> DOWNLOAD PDF COLLAPSE ALL SPECS</p> <p>SUMMARY</p> <table> <tbody> <tr> <td>Blu-ray Support</td> <td>Yes</td> </tr> <tr> <td>Full HD 1080p resolution</td> <td>Yes</td> </tr> <tr> <td>Upscale Standard DVDs</td> <td>Yes</td> </tr> <tr> <td>NetCast™ Entertainment Access</td> <td>Yes</td> </tr> <tr> <td>Internet Services</td> <td>Netflix, Pandora, CinemaNow, YouTube</td> </tr> <tr> <td>No. of HDMI Ports</td> <td>2</td> </tr> <tr> <td>Disc Capacity</td> <td>1</td> </tr> <tr> <td>Disc Playback Capability</td> <td>Blu-ray Disc™, BD-R/RE, DVD-Video, DVD±R, DVD-RW, DVD+RW, Audio CD, CD-R/RW</td> </tr> <tr> <td>Video Content Formats</td> <td>DVD, MPEG4, MP3, CD, WMA, JPG</td> </tr> <tr> <td>Surround Sound</td> <td>Yes</td> </tr> <tr> <td>Total Output Power</td> <td>1000</td> </tr> <tr> <td>iPod-Ready</td> <td>Yes</td> </tr> <tr> <td>Video, Pictures and Music via USB 2.0</td> <td>Yes</td> </tr> <tr> <td>SimpLink™ connectivity</td> <td>Yes</td> </tr> <tr> <td>Limited Waranty</td> <td>1 Year Parts/90 Days Labor</td> </tr> </tbody> </table> <p>Source: http://www.lg.com/us/home-theater-systems/lg-LHB977-home-theater-system</p>	Blu-ray Support	Yes	Full HD 1080p resolution	Yes	Upscale Standard DVDs	Yes	NetCast™ Entertainment Access	Yes	Internet Services	Netflix, Pandora, CinemaNow, YouTube	No. of HDMI Ports	2	Disc Capacity	1	Disc Playback Capability	Blu-ray Disc™, BD-R/RE, DVD-Video, DVD±R, DVD-RW, DVD+RW, Audio CD, CD-R/RW	Video Content Formats	DVD, MPEG4, MP3, CD, WMA, JPG	Surround Sound	Yes	Total Output Power	1000	iPod-Ready	Yes	Video, Pictures and Music via USB 2.0	Yes	SimpLink™ connectivity	Yes	Limited Waranty	1 Year Parts/90 Days Labor
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Full HD 1080p resolution	Yes																														
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U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)				
	 <p>Discontinued Product</p> <p>LG 5.1 Blu-Ray Home Cinema System With YouTube</p> <p>LG 5.1 BLU-RAY HOME CINEMA SYSTEM WITH YOUTUBE HB954PB</p> <ul style="list-style-type: none"> • BLU-RAY • DVD • YOUTUBE • VSM (VIRTUAL SOUND MATRIX) <p>WHERE TO BUY ★★★★ 0/5 Based on 0 user reviews</p> <p><input type="button"/> ADD TO COMPARE</p> <p>Home > Home Entertainment > LG HB954PB</p> <p>TECHNICAL SPECIFICATIONS REVIEWS PRODUCT SUPPORT</p> <p>LG 5.1 BLU-RAY HOME CINEMA SYSTEM WITH YOUTUBE HB954PB + EXPAND ALL Specs</p> <p>+ KEY FEATURES</p> <p>- PLAY BACK</p> <table> <tbody> <tr> <td>DVD</td> <td>Yes</td> </tr> <tr> <td>Blu-ray</td> <td>Yes</td> </tr> </tbody> </table> <p>Source: http://www.lg.com/uk/home-entertainment/lg-HB954PB-home-cinema-system</p>	DVD	Yes	Blu-ray	Yes
DVD	Yes				
Blu-ray	Yes				

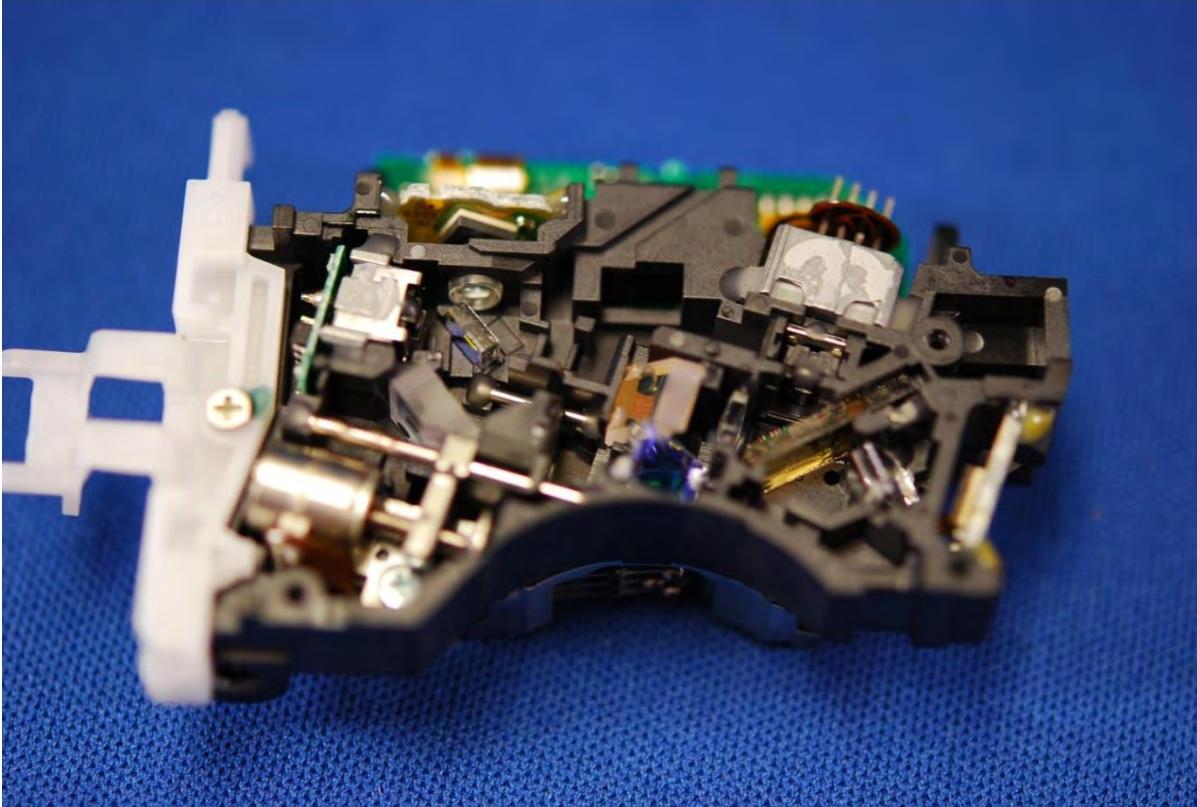
U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of the optical pick up head from bottom from BD590</i></p>  A photograph showing the underside of an optical pickup head assembly. The assembly is silver-colored metal with various components attached. Two white rectangular labels are visible: one on the left with the text "003" and a QR code, and one on the right with the text "S7 Q126K" and a QR code. Below the metal frame, a green printed circuit board (PCB) is visible, featuring several gold-plated pins and a central integrated circuit. The entire assembly is set against a solid blue background.

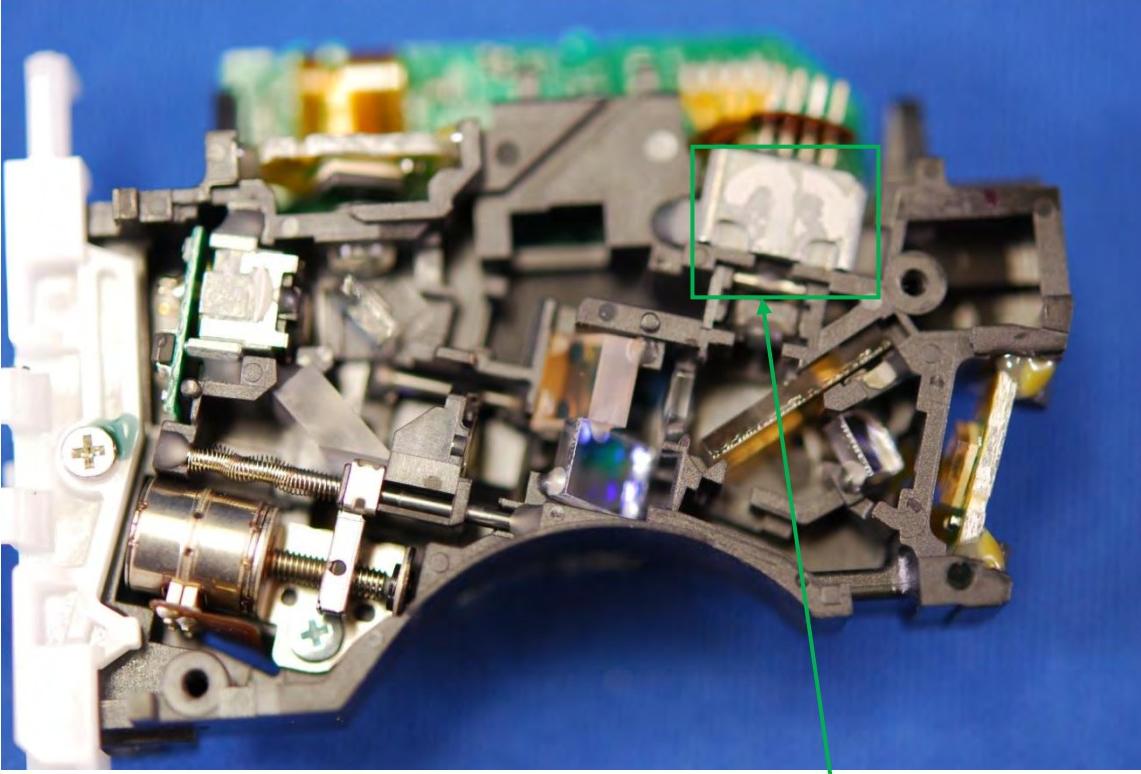
U.S. Patent No. 6,324,150

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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
	<p><i>Photograph of the optical pickup head from bottom with the back plate removed from BD590</i></p>  A close-up photograph of an optical pickup head, specifically the BD590 model. The device is shown from a bottom perspective, with its back plate removed. It features a complex assembly of mechanical and optical components, including a white plastic housing, a green printed circuit board (PCB) with various electronic components, and a central optical lens system. The entire assembly is set against a solid blue background.

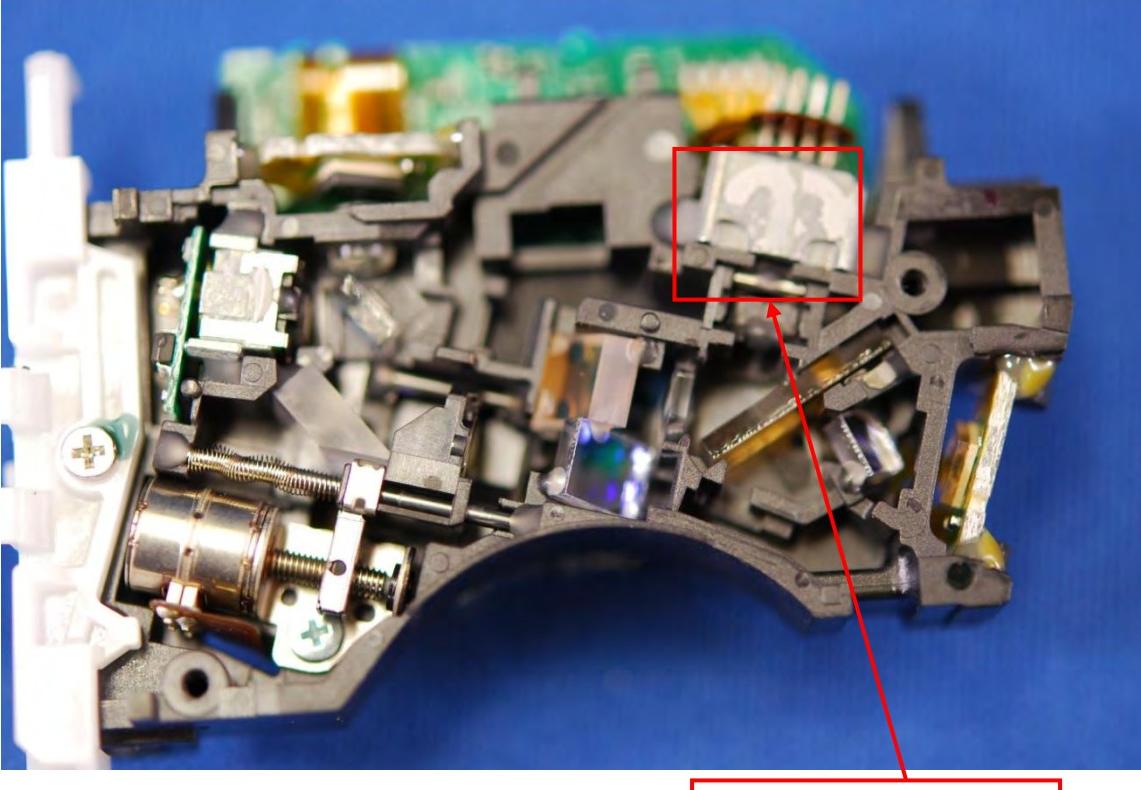
U.S. Patent No. 6,324,150

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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9b. a first laser beam generator and	 <p data-bbox="1374 1188 1733 1339">FIRST AND SECOND LASER BEAM GENERATORS</p>

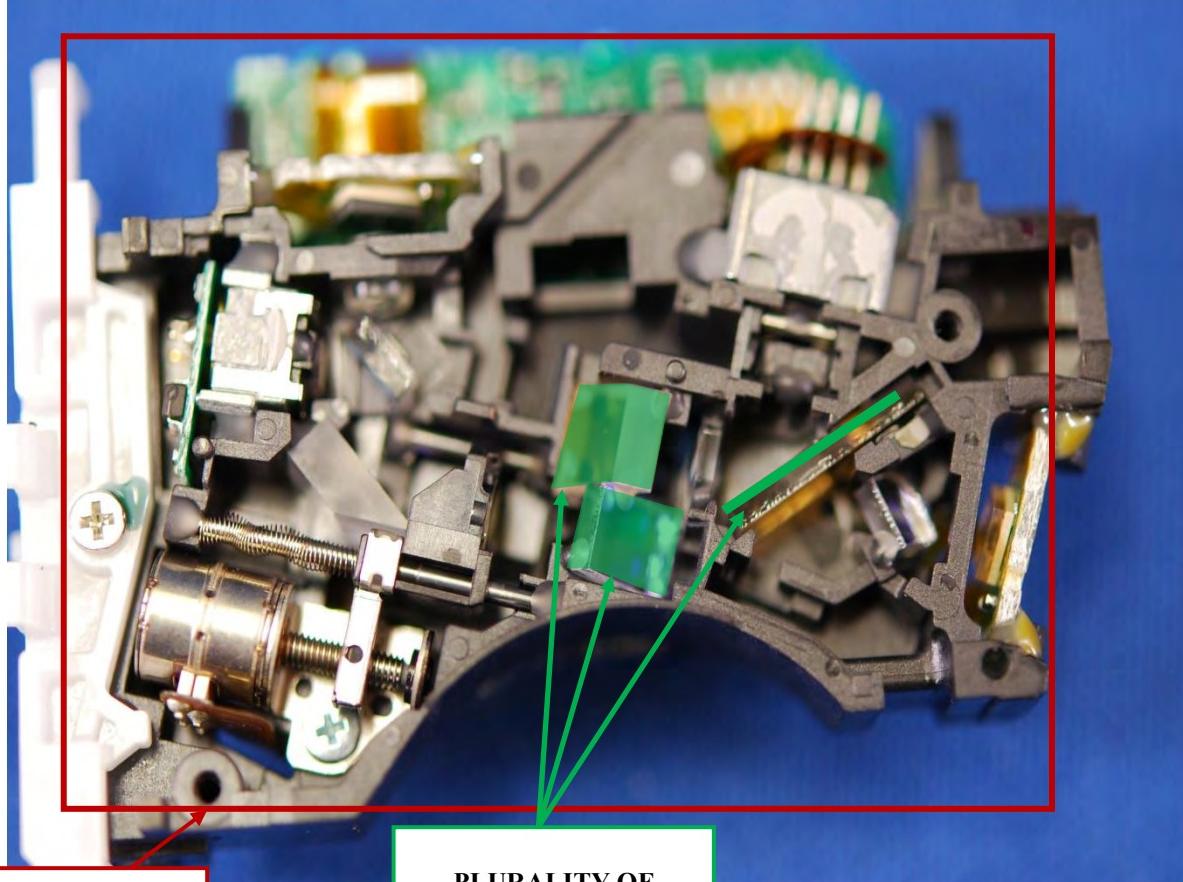
U.S. Patent No. 6,324,150

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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9c. a second laser beam generator, for generating a first laser beam and a second laser beam of different wavelengths,	 <p data-bbox="1389 1192 1748 1302">FIRST AND SECOND LASER BEAM GENERATORS</p> <p data-bbox="566 1323 1790 1362">CD and DVD use 780 nm and 650nm red lasers, respectively, Blu-ray uses a 405 nm blue laser</p>

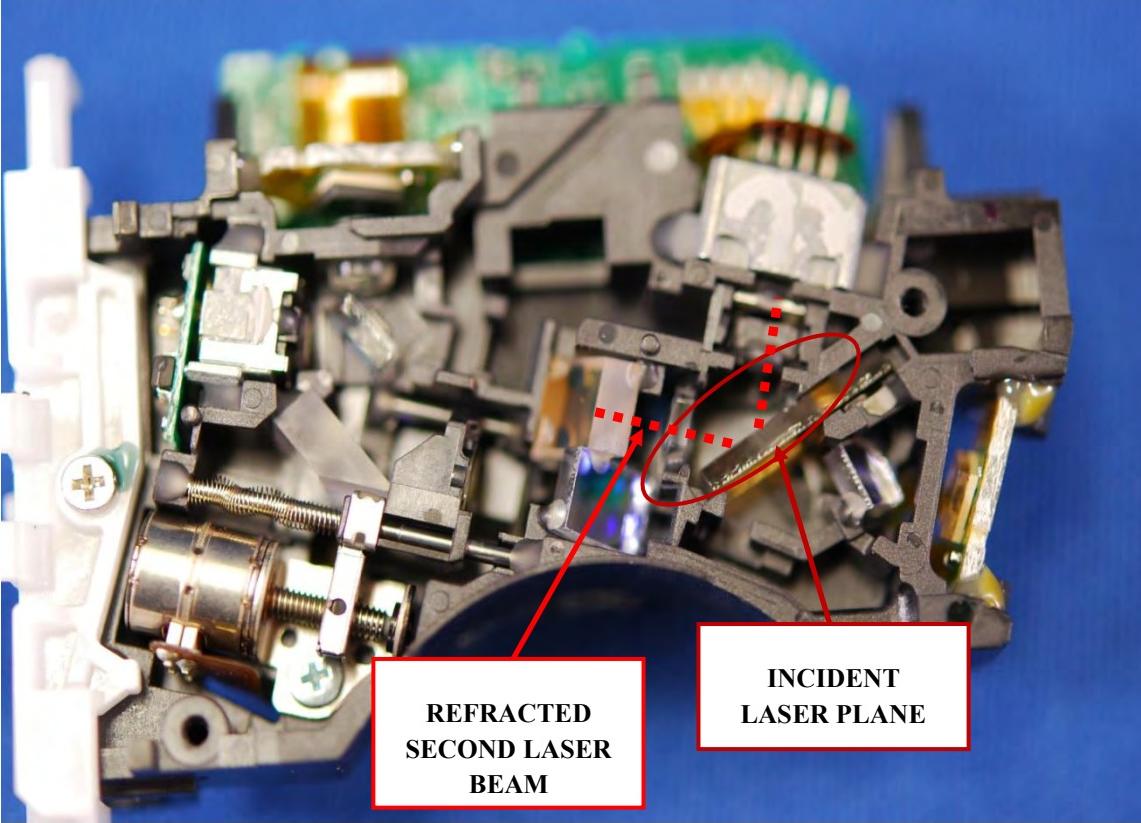
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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9d. a beam shaper, allocated in optical paths of said first and second laser beams, and formed with a plurality of planes locating in different angles, comprising:	 <p data-bbox="650 1286 861 1310">BEAM SHAPER</p> <p data-bbox="1136 1245 1347 1310">PLURALITY OF PLANES</p>

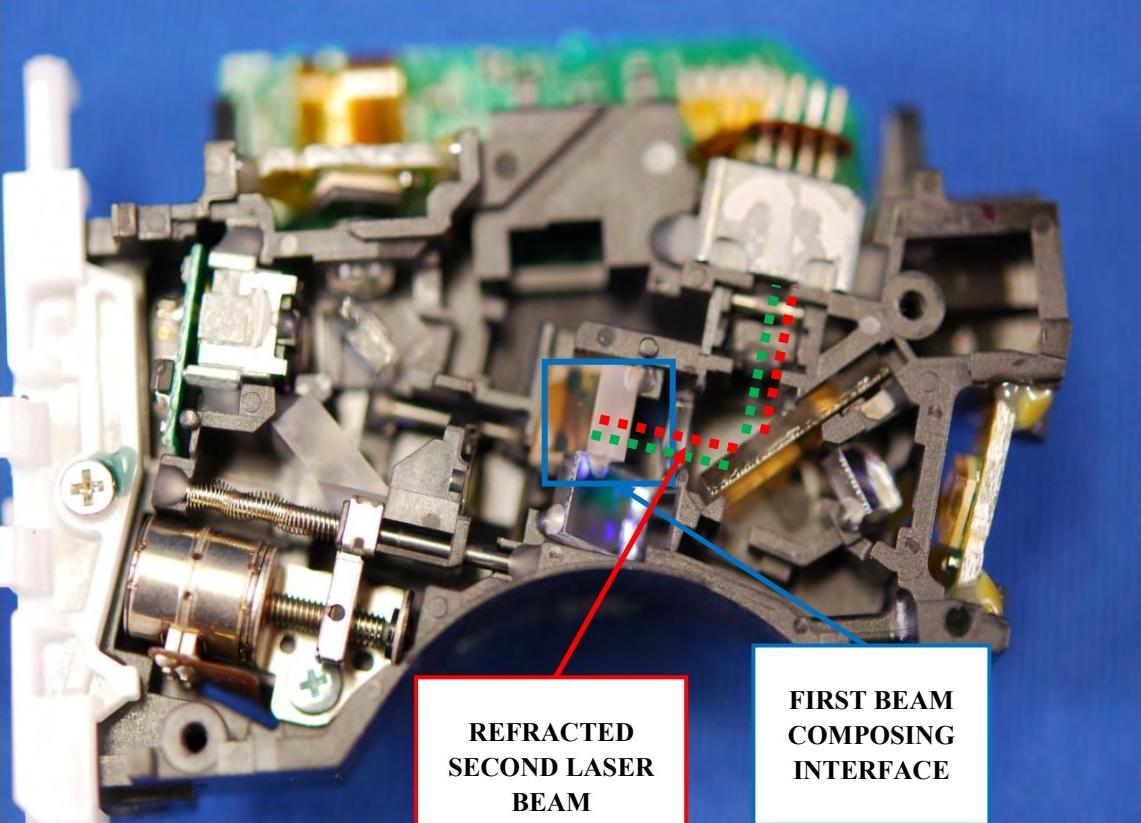
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9e. an incident laser plane for refracting said second laser beam, to generate a refracted second laser beam;	 <p data-bbox="665 1232 1383 1346">Legend: SECOND LASER BEAM -----</p>

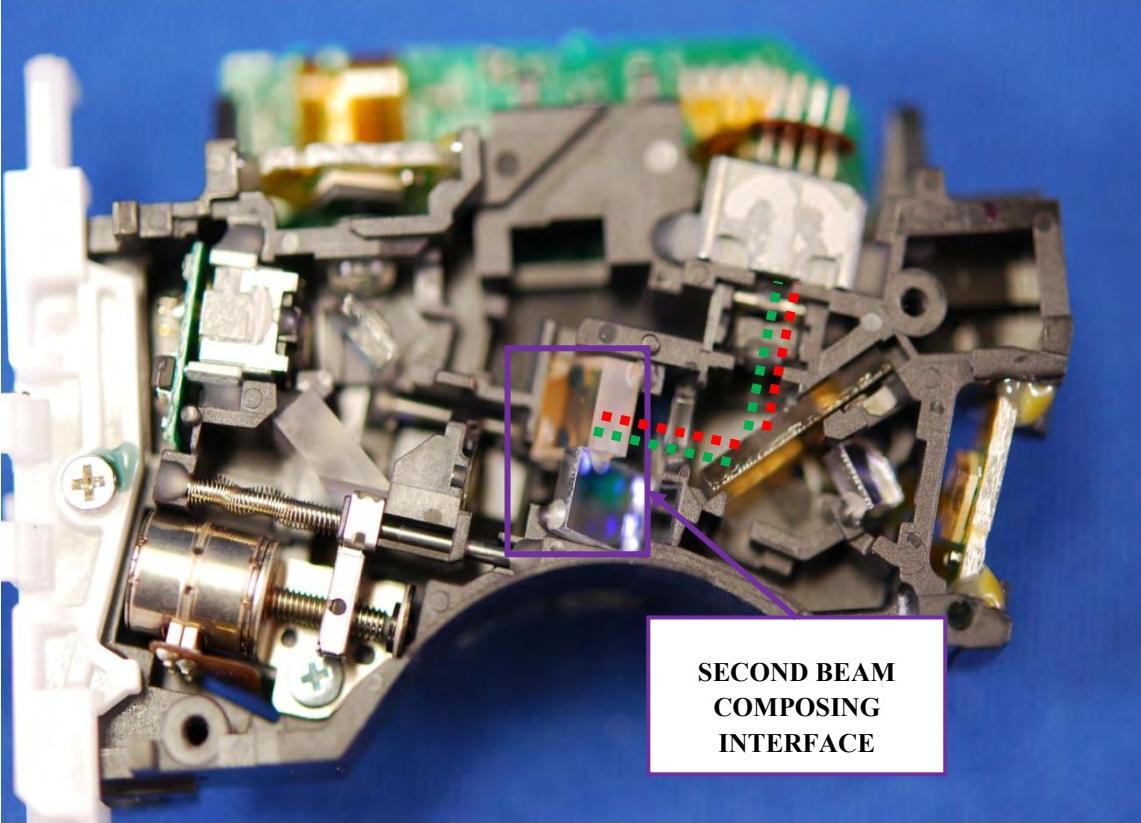
U.S. Patent No. 6,324,150

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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9f. a first beam-composing interface for composing said refracted second laser beam with said first laser beam into an optical output path;	 <p data-bbox="654 1248 1372 1362">Legend: SECOND LASER BEAM FIRST LASER BEAM -----</p>

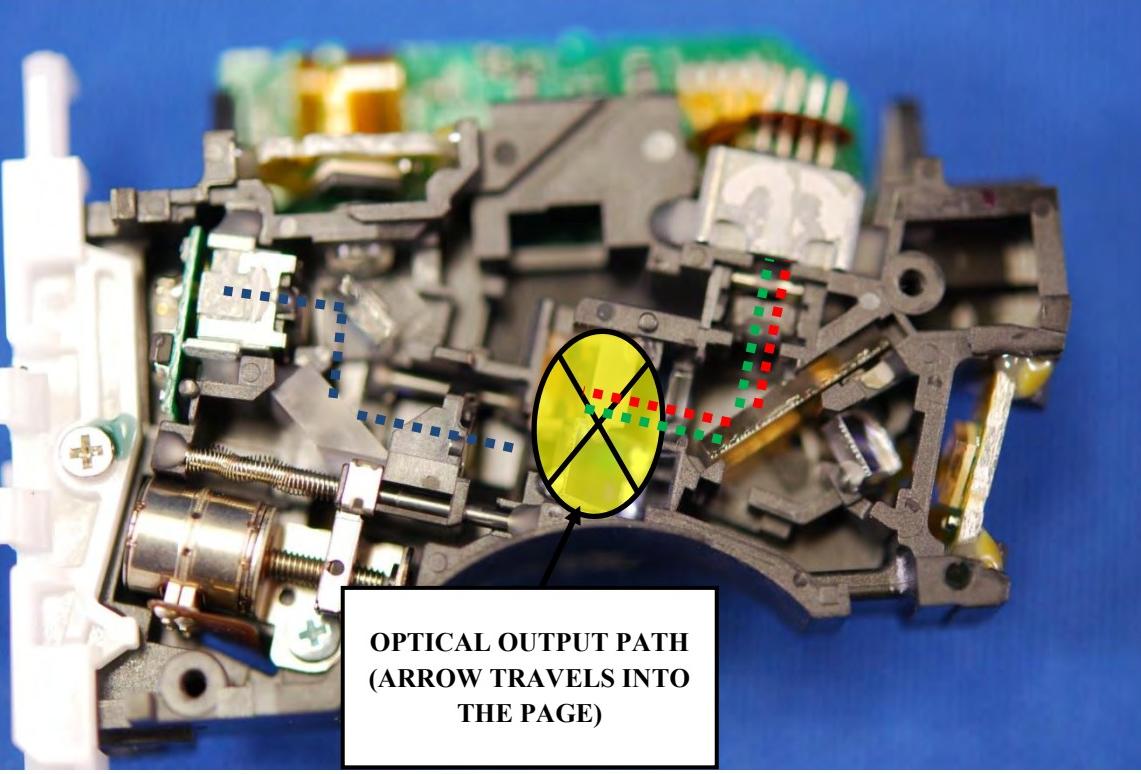
U.S. Patent No. 6,324,150

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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9g. a second beam-composing interface for composing said first and second laser beams,	 <p data-bbox="686 1232 1404 1346">Legend: SECOND LASER BEAM FIRST LASER BEAM</p>

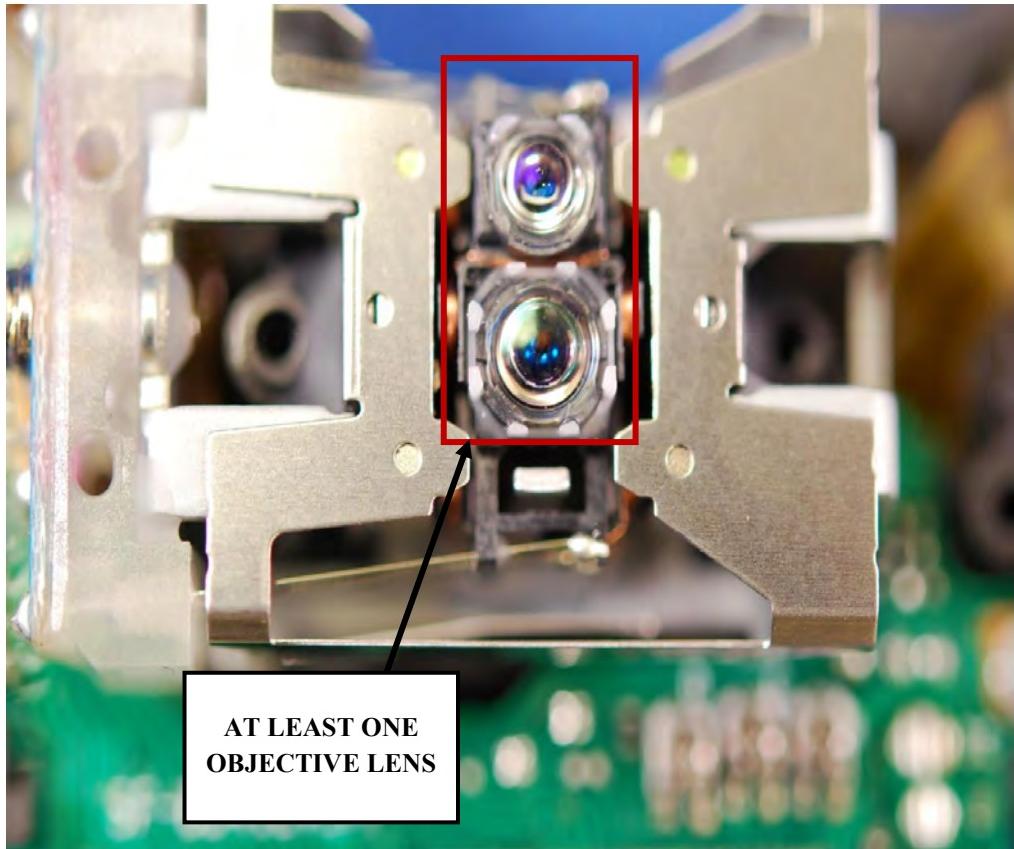
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9h. after they are being composed by said first beam-composing interface, with a third laser beam into said optical output path;	 <p data-bbox="707 1166 1488 1330">Legend: SECOND LASER BEAM FIRST LASER BEAM THIRD LASER BEAM (BLU-RAY)</p>

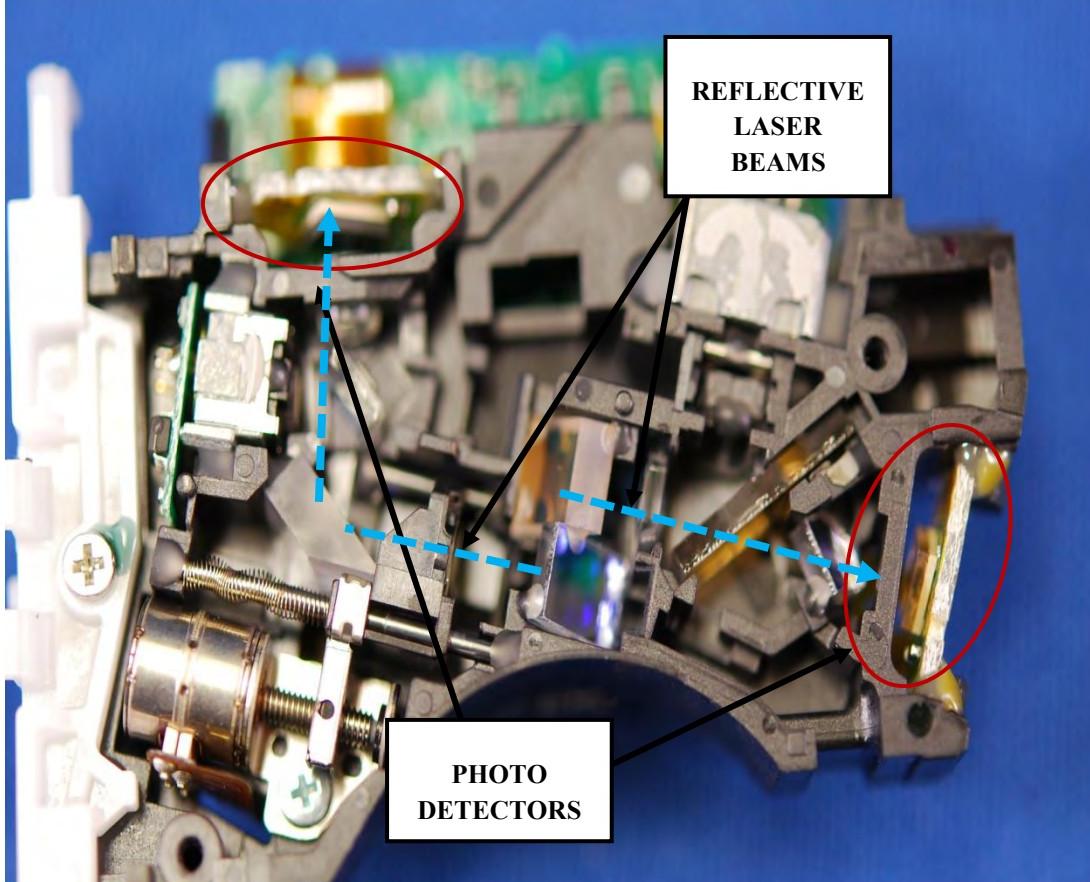
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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9i. an objective lens for focusing laser beams in said optical output path onto said optical recording media as an reading/writing spot; and	<p><i>Photograph of the objective lens from BD590</i></p> 

U.S. Patent No. 6,324,150

Exhibit A2

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
9j. a photo detector for transforming a reflective laser beam returning from said optical recording media into corresponding signals and accomplishing data retrieval;	 <p>A close-up photograph of an optical assembly, likely a laser head or similar component. The assembly is metallic and features several optical lenses and mirrors. Two specific areas are highlighted with red circles and labeled with callout boxes. One callout box, located at the top right, is labeled "REFLECTIVE LASER BEAMS" and points to a lens element. Another callout box, located at the bottom center, is labeled "PHOTO DETECTORS" and points to a rectangular component. A legend at the bottom left defines a dashed blue arrow as "REFLECTIVE LASER BEAM".</p> <p>Legend: REFLECTIVE LASER BEAM -----</p>

U.S. Patent No. 6,324,150

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CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCTS (BD270, BD300, BD370, BD390, BD550, BD570, BD590, BX580, BX582, BX585, LHB335, LHB535, LHB953, LHB975, LHB977, HB954)
<p>9k. wherein said third laser beam is an incident laser beam generated by a third laser beam generator, refracted to said second beam-composing interface and composed into same optical output path.</p>	<p>THIRD LASER BEAM GENERATOR (BLU-RAY)</p> <p>SECOND BEAM-COMPOSING INTERFACE</p> <p>SAME OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <p>Legend: THIRD LASER BEAM -----</p>

U.S. Patent No. 6,324,150**Exhibit A3**

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9. An optical pickup head ¹	<p>Each element of this claim, except where noted otherwise, and each element of the asserted claims dependent thereon, is present literally and/or under the doctrine of equivalents in the accused LG Products.²</p> <p>ITRI provides these infringement contentions before obtaining complete discovery and disclosures from LG. Specifically, LG has not produced documentation sufficient to demonstrate how each and every optical pickup head operates, and has not produced documentation sufficient to demonstrate that it has identified every LG document corresponding to accused optical pickup heads. Further, LG has “confirmed” that particular LG products utilize certain optical pickup heads that are not borne out by physical inspection. ITRI expects that LG will produce information to fully meet its discovery obligations regarding LG’s instrumentalities beyond that which is publically available. Accordingly, ITRI reserves the right to modify these infringement contentions based upon LG’s document production and required disclosures.</p>

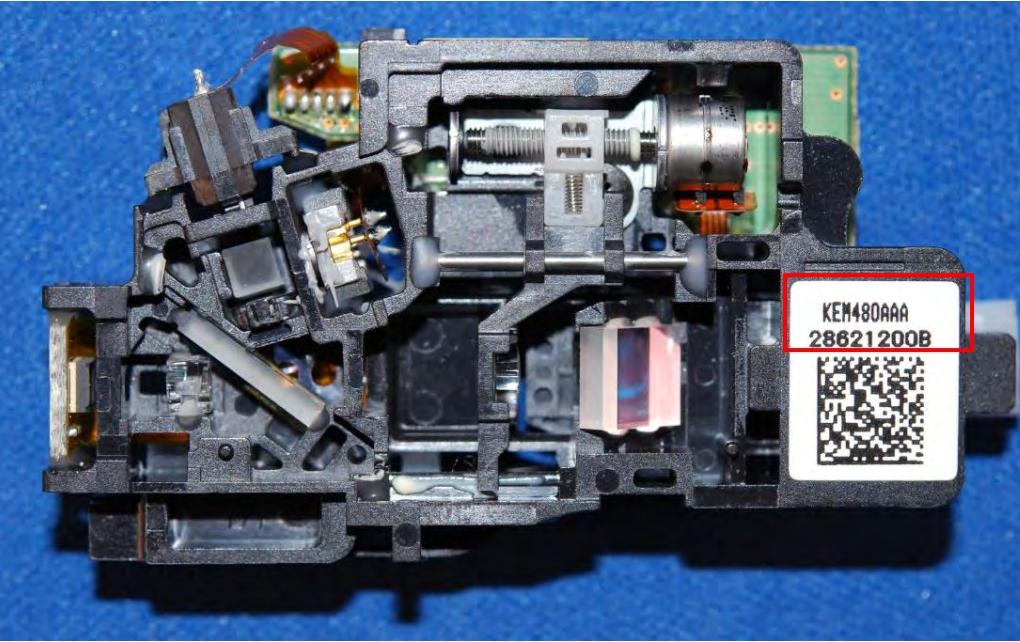
¹ ITRI contends that the preamble to this claim is not limiting in any manner. ITRI’s references to the accused product regarding the preamble are for illustration only and do not constitute an admission that the preamble is limiting.

² The LG Products often practice the claim elements in numerous alternative ways in accordance with the present chart. The LG Products should be assumed to act alone or in combination as referenced herein and interpreted in the singular or plural accordingly. LG further provides the LG Products as well as the instructions to customers/users causing them to use the accused products in an infringing manner, including, without limitation, in their default and expected uses.

To the extent each element of this claim, and the asserted claims dependent thereon are not present literally in the accused LG Products, each element is present under the doctrine of equivalents because there is no substantial difference between the elements of the asserted claims and the corresponding functionality in the accused instrumentality, *i.e.*, the corresponding functionality in the accused product performs substantially the same function, in substantially the same way to achieve substantially the same results as the claimed elements.

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p>ITRI contends that, upon physical inspection, the following products use optical pickup units (“OPUs”) that are identical for purposes of infringement analysis: BP200, BP125, BP325W, and BP330. Moreover, physical inspection of the BP125, BP200, and BP330 shows that at least these products contain marking identifying the OPU as KEM480AAA.</p>  <p><i>Photograph of OPU from LG BP125 Blu-ray Player</i></p> <p>Thus, ITRI contends that all additional products, disclosed or undisclosed by LG, that include the KEM480AAA infringe in a similar manner to the products physically inspected for this chart.</p>

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of LG BP200 Blu-ray Player</i></p> 

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of LG BP125 Blu-ray Player</i></p> 

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of LG BP325W Blu-ray Player</i></p> 

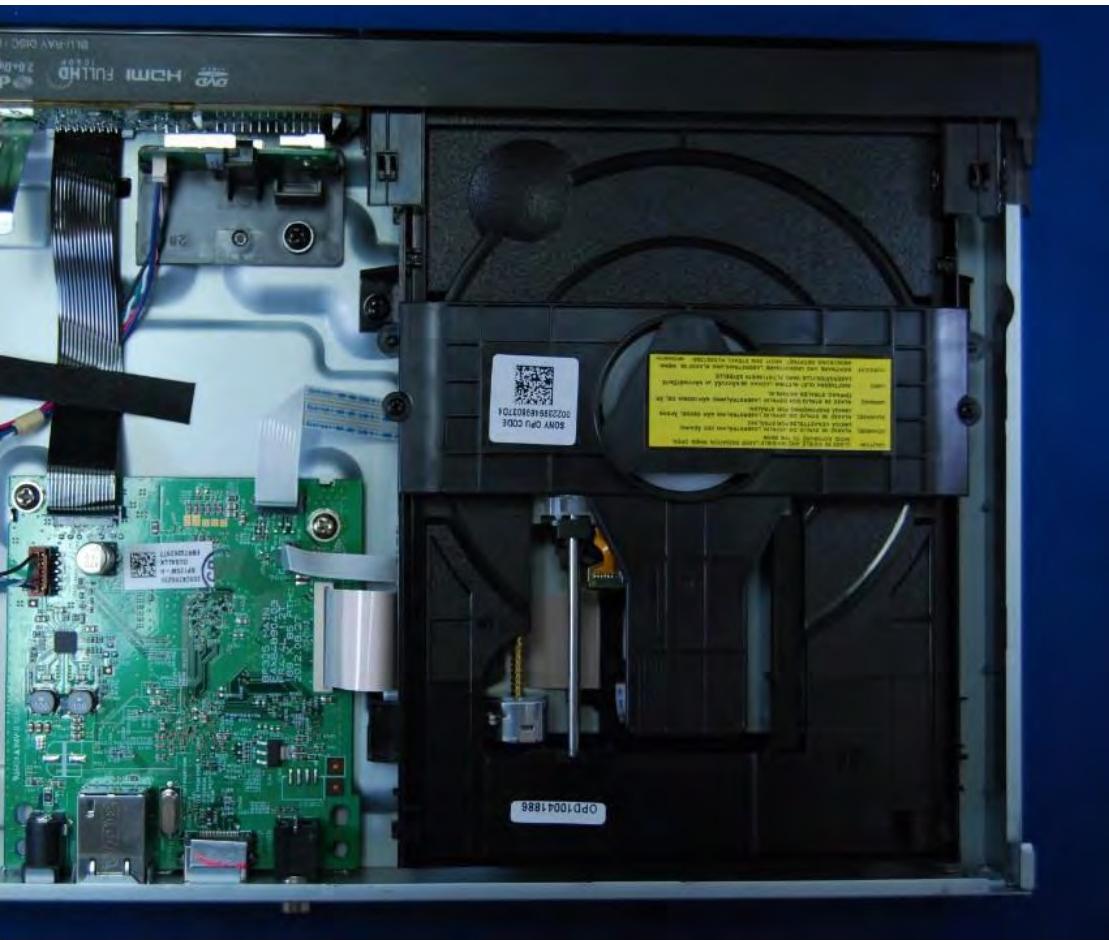
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of LG BP330 Blu-ray Player</i></p>

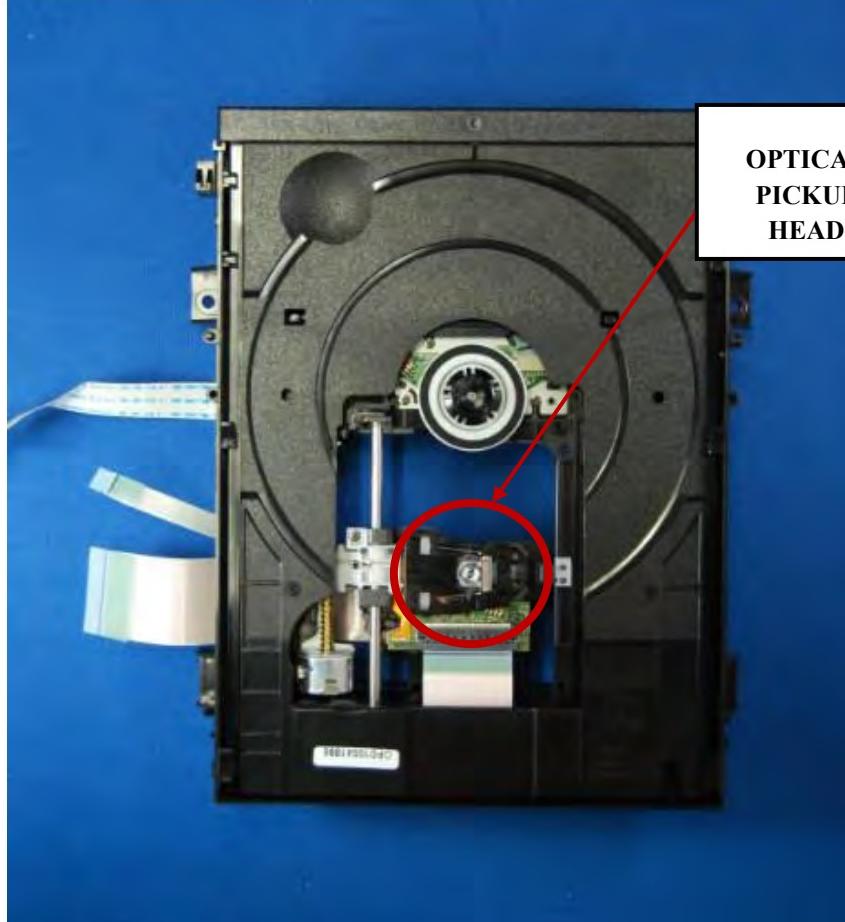
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of optical disk drive module from BP200</i></p> 

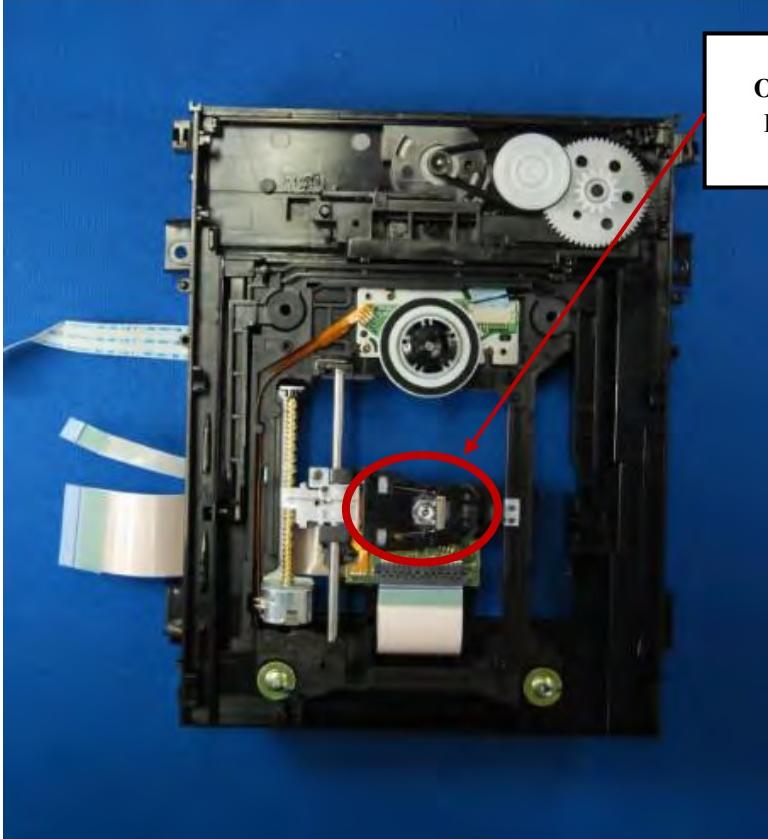
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph showing the optical disk drive mechanism with the panel cover removed from BP200</i></p>  <p>OPTICAL PICKUP HEAD</p>

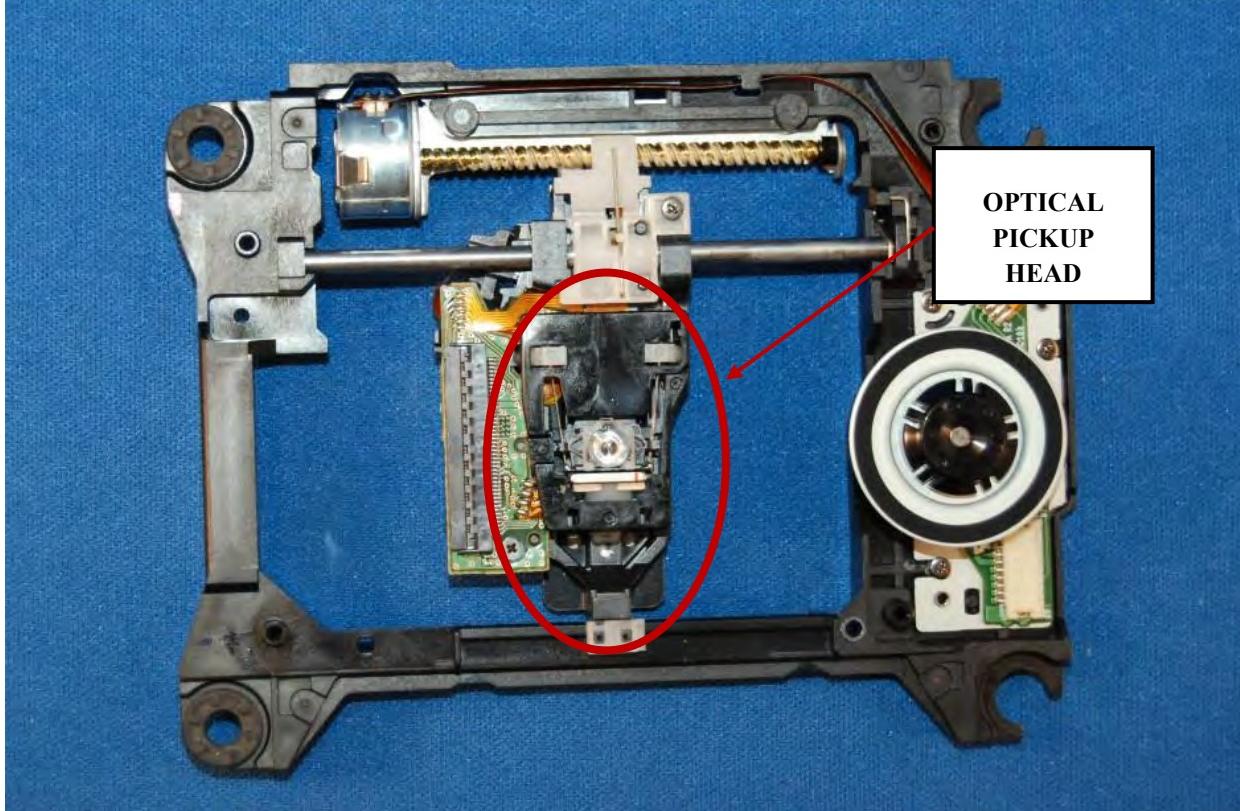
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph showing the optical disk drive mechanism without the top panel cover from BP200</i></p>  <p>OPTICAL PICKUP HEAD</p>

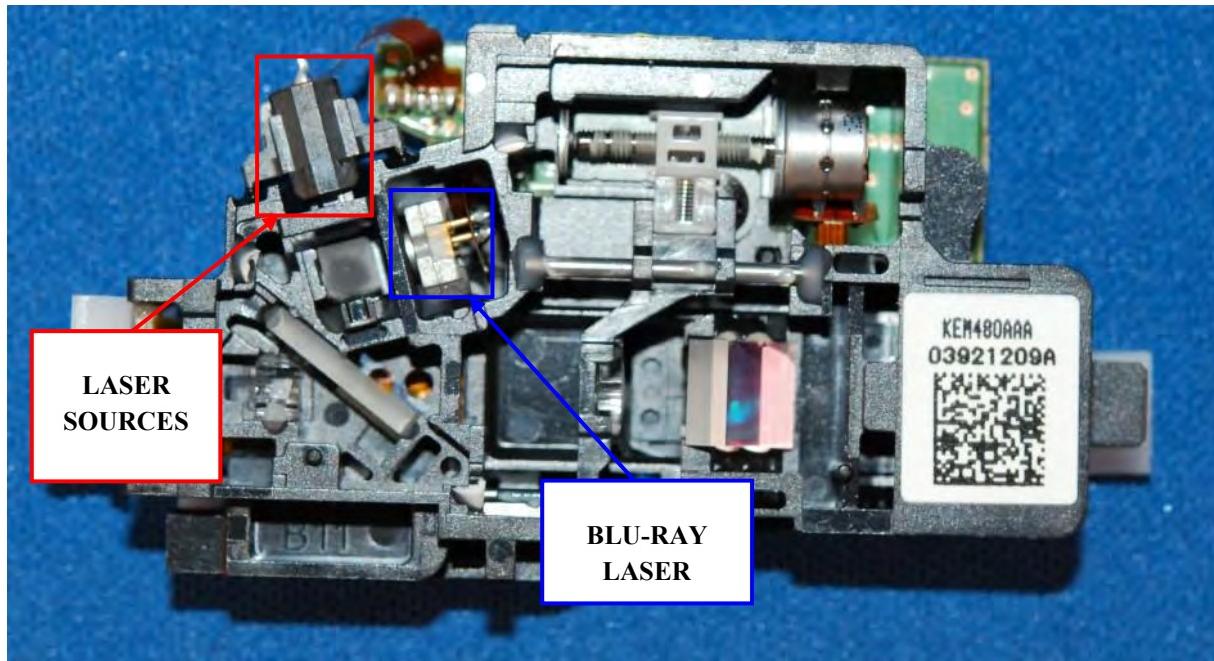
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of the optical disk drive mechanism without the top and bottom panel covers from BP200</i></p>  <p>OPTICAL PICKUP HEAD</p>

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9a. using multiple laser sources of different wavelengths for reading/writing data on optical recording media of varying densities, comprising:	<p><i>Photograph of the optical pick up head from BP200</i></p> 

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)																		
	<p>BLURAY PLAYER WITH USB</p> <p>BP125</p> <p>EXPAND ALL SPECS</p> <p>+ COMMON SPEC</p> <p>+ DIMENSION(MM)</p> <p>- PLAYABLE DISC</p> <table border="1"><tbody><tr><td>BD-ROM</td><td>Yes</td></tr><tr><td>BD-R</td><td>Yes</td></tr><tr><td>BD-RE</td><td>Yes</td></tr><tr><td>DVD ROM</td><td>Yes</td></tr><tr><td>DVD+R/+RW</td><td>Yes</td></tr><tr><td>DVD-R/-RW</td><td>Yes</td></tr><tr><td>AUDIO-CD</td><td>Yes</td></tr><tr><td>CD-R/RW</td><td>Yes</td></tr><tr><td>DTS-CD</td><td>Yes</td></tr></tbody></table> <p>+ AV FORMAT</p> <p>+ CONVENIENCE</p> <p>+ FRONT PANEL</p> <p>+ REAR PANEL</p> <p>Source: http://www.lg.com/za/blu-ray-dvd-players/lg-BP125-blu-ray-player</p>	BD-ROM	Yes	BD-R	Yes	BD-RE	Yes	DVD ROM	Yes	DVD+R/+RW	Yes	DVD-R/-RW	Yes	AUDIO-CD	Yes	CD-R/RW	Yes	DTS-CD	Yes
BD-ROM	Yes																		
BD-R	Yes																		
BD-RE	Yes																		
DVD ROM	Yes																		
DVD+R/+RW	Yes																		
DVD-R/-RW	Yes																		
AUDIO-CD	Yes																		
CD-R/RW	Yes																		
DTS-CD	Yes																		

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)														
	<p>Home > Blu-ray Players > LG BP200</p> <p>FEATURES TECHNICAL SPECIFICATIONS REVIEWS ASK & ANSWER PRODUCT SUPPORT</p> <p>BLU-RAY DISC™ PLAYER WITH SMARTTV</p> <p>BP200 COLLAPSE ALL Specs</p> <div style="border: 2px solid red; padding: 10px;"><p>DISC PLAYBACK CAPABILITY</p><table><tbody><tr><td>BD-Rom</td><td>Yes</td></tr><tr><td>BD-R</td><td>Yes</td></tr><tr><td>BD-RE</td><td>Yes</td></tr><tr><td>DVD-R</td><td>Yes</td></tr><tr><td>DVD-RW</td><td>Yes</td></tr><tr><td>Audio CD</td><td>Yes</td></tr><tr><td>CD-R/CD-RW</td><td>Yes</td></tr></tbody></table><p>VIDEO FORMAT</p><p>VIDEO FEATURES</p><p>AUDIO FORMAT</p><p>AUDIO FEATURES</p><p>CONNECTIVITY</p><p>AV INPUTS/OUTPUTS</p><p>SUPPLIED ACCESSORIES</p><p>POWER</p><p>CONVENIENCE FEATURES</p><p>Design, features and specifications subject to change without notice. BACK TO TOP ▲</p></div> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BP200</p>	BD-Rom	Yes	BD-R	Yes	BD-RE	Yes	DVD-R	Yes	DVD-RW	Yes	Audio CD	Yes	CD-R/CD-RW	Yes
BD-Rom	Yes														
BD-R	Yes														
BD-RE	Yes														
DVD-R	Yes														
DVD-RW	Yes														
Audio CD	Yes														
CD-R/CD-RW	Yes														

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)																				
	<p>3D-CAPABLE BLU-RAY DISC™ PLAYER WITH SMARTTV AND WIRELESS CONNECTIVITY</p> <p>BP325W</p> <p>- COLLAPSE ALL SPECS</p> <div style="border: 2px solid red; padding: 10px;"><p>- DISC PLAYBACK CAPABILITY</p><table><tbody><tr><td>BD-Rom</td><td>Yes</td></tr><tr><td>BD-R</td><td>Yes</td></tr><tr><td>BD-RE</td><td>Yes</td></tr><tr><td>DVD-R</td><td>Yes</td></tr><tr><td>DVD-RW</td><td>Yes</td></tr><tr><td>DVD+R</td><td>Yes</td></tr><tr><td>DVD+RW</td><td>Yes</td></tr><tr><td>Audio CD</td><td>Yes</td></tr><tr><td>DTS-CD</td><td>Yes</td></tr><tr><td>CD-R/CD-RW</td><td>Yes</td></tr></tbody></table><p>+ VIDEO FORMAT</p><p>+ VIDEO FEATURES</p><p>+ AUDIO FORMAT</p><p>+ AUDIO FEATURES</p><p>+ CONNECTIVITY</p></div> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BP325W/technical-specifications</p>	BD-Rom	Yes	BD-R	Yes	BD-RE	Yes	DVD-R	Yes	DVD-RW	Yes	DVD+R	Yes	DVD+RW	Yes	Audio CD	Yes	DTS-CD	Yes	CD-R/CD-RW	Yes
BD-Rom	Yes																				
BD-R	Yes																				
BD-RE	Yes																				
DVD-R	Yes																				
DVD-RW	Yes																				
DVD+R	Yes																				
DVD+RW	Yes																				
Audio CD	Yes																				
DTS-CD	Yes																				
CD-R/CD-RW	Yes																				

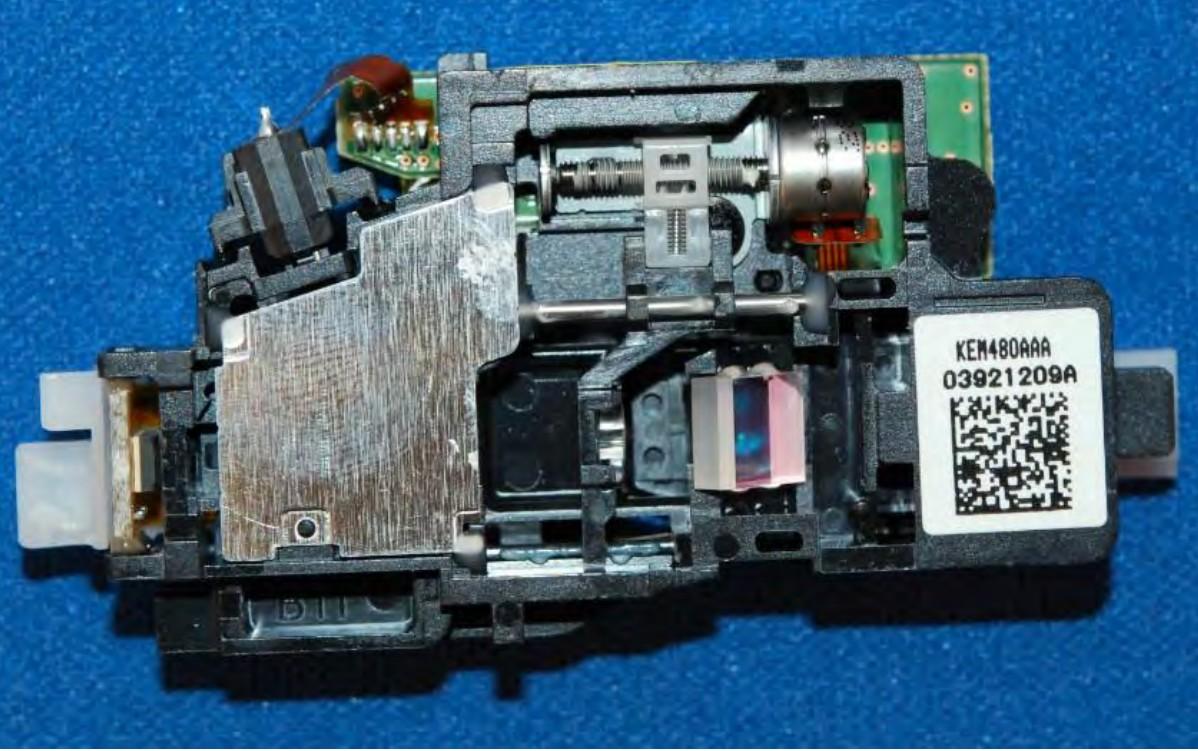
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)														
	<p>LG BP330 BLU-RAY DISC™ PLAYER WITH BUILT-IN WI-FI®</p> <p>BP330</p> <p>DOWNLOAD PDF COLLAPSE ALL SPECS</p> <p>■ PROFILE & PLAYABLE DISC</p> <table border="1"><tbody><tr><td>BD Profile</td><td>2.0</td></tr><tr><td>USB Playback</td><td>Yes</td></tr><tr><td>External HDD Playback</td><td>Yes (via USB)</td></tr><tr><td>BD-ROM/BD-R/BD-RE</td><td>Yes</td></tr><tr><td>DVD-ROM/DVD±R/DVD±RW</td><td>Yes</td></tr><tr><td>Audio CD/CD-R/CD-RW</td><td>Yes</td></tr><tr><td>DTS-CD</td><td>Yes</td></tr></tbody></table> <p>Source: http://www.lg.com/us/blu-ray-players/lg-BP330-blu-ray-player</p>	BD Profile	2.0	USB Playback	Yes	External HDD Playback	Yes (via USB)	BD-ROM/BD-R/BD-RE	Yes	DVD-ROM/DVD±R/DVD±RW	Yes	Audio CD/CD-R/CD-RW	Yes	DTS-CD	Yes
BD Profile	2.0														
USB Playback	Yes														
External HDD Playback	Yes (via USB)														
BD-ROM/BD-R/BD-RE	Yes														
DVD-ROM/DVD±R/DVD±RW	Yes														
Audio CD/CD-R/CD-RW	Yes														
DTS-CD	Yes														

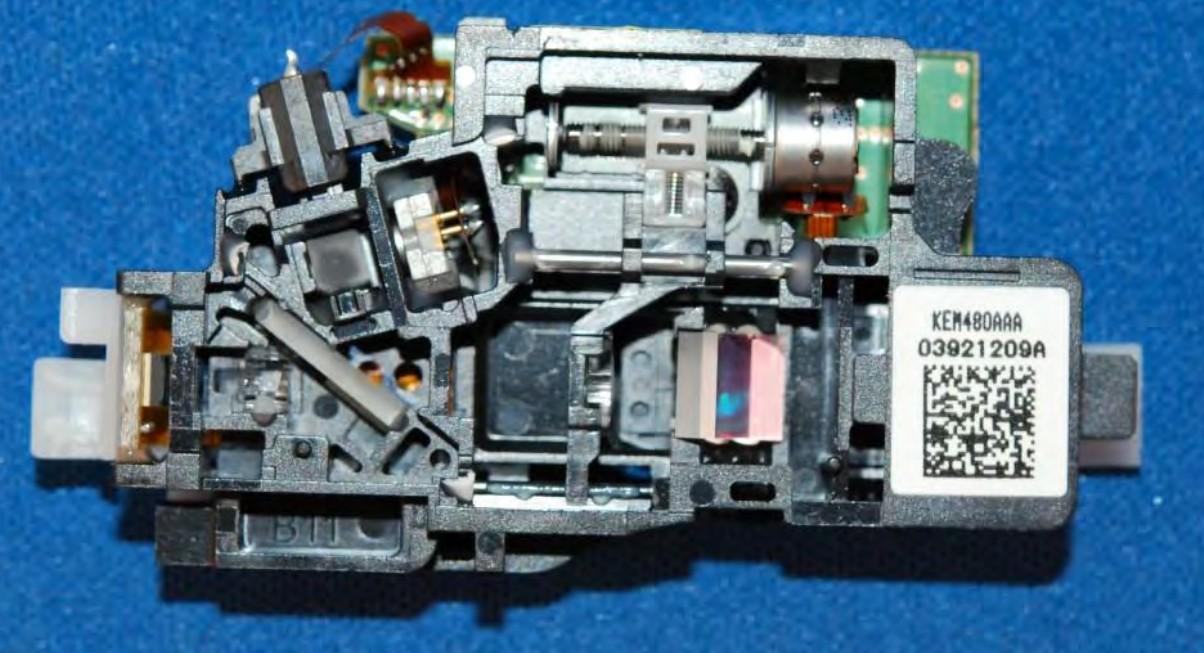
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of the optical pick up head from bottom from BP200</i></p> 

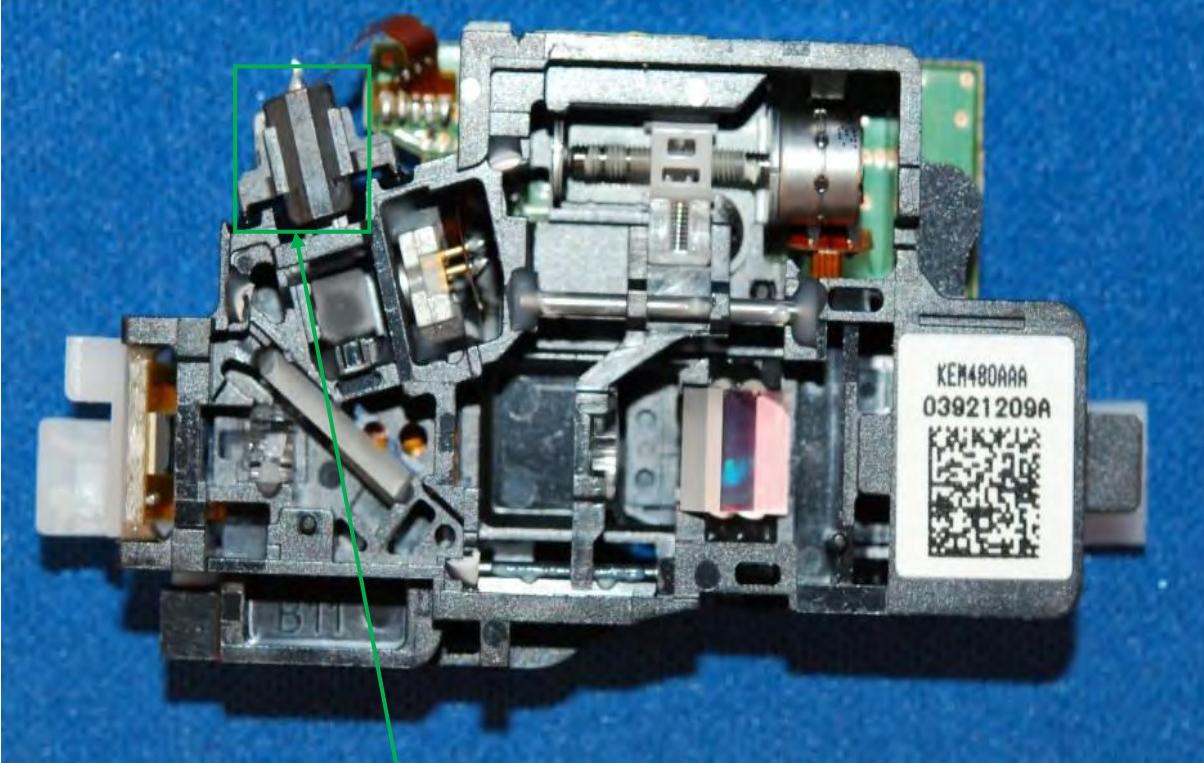
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
	<p><i>Photograph of the optical drive from bottom with the back plate removed from BP200</i></p> 

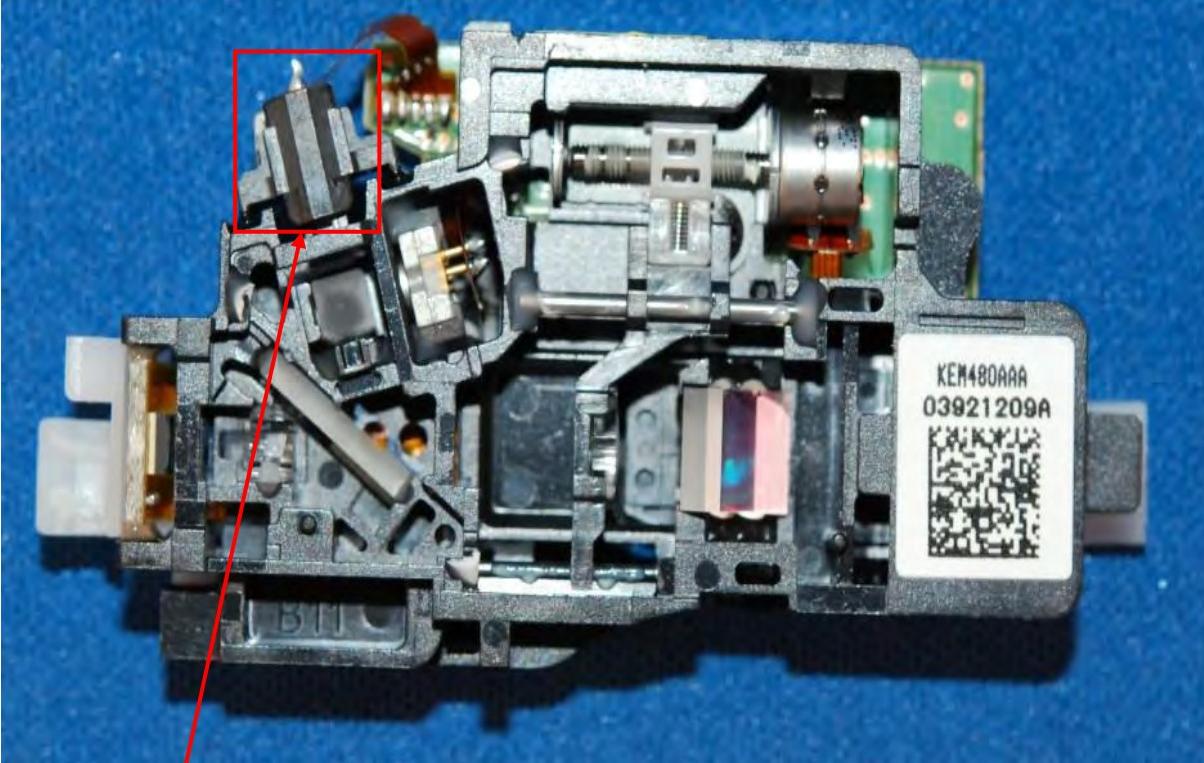
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9b. a first laser beam generator and	 <p data-bbox="861 1225 1233 1290">FIRST AND SECOND LASER BEAM GENERATORS</p>

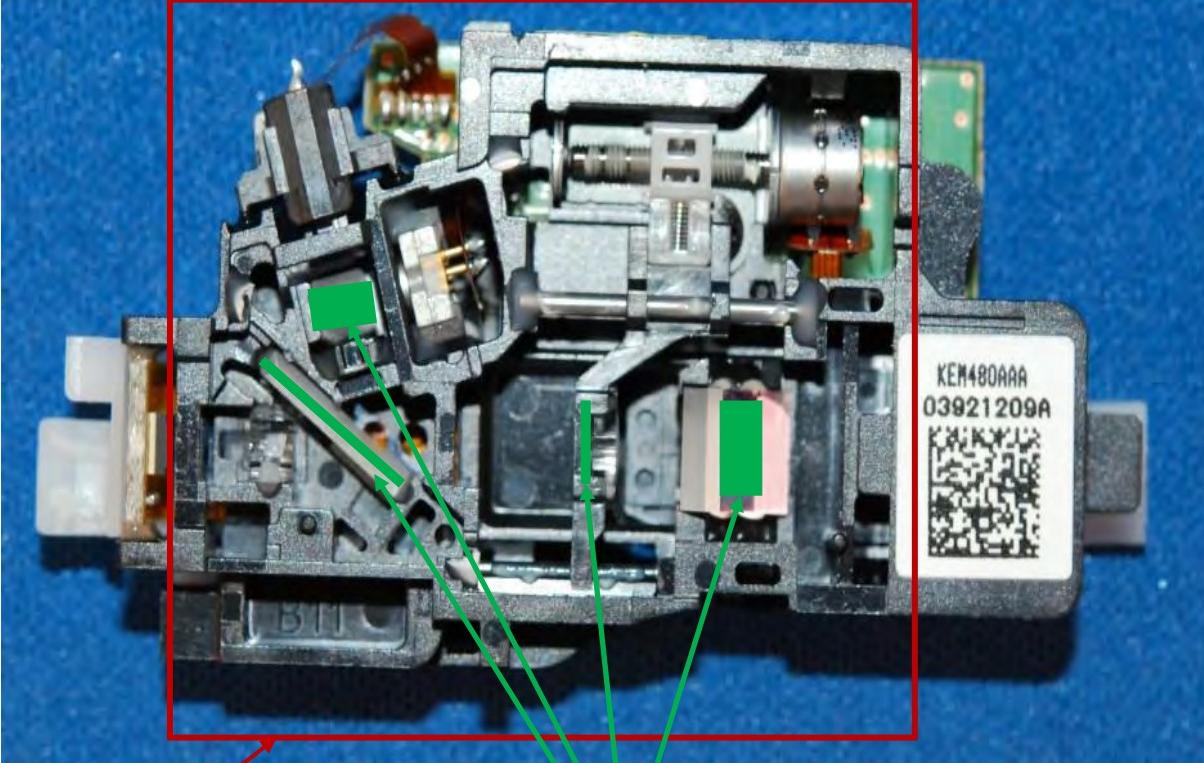
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9c. a second laser beam generator, for generating a first laser beam and a second laser beam of different wavelengths,	 <p data-bbox="656 1204 1030 1269">FIRST AND SECOND LASER BEAM GENERATORS</p> <p data-bbox="536 1318 1761 1356">CD and DVD use 780 nm and 650nm red lasers, respectively, Blu-ray uses a 405 nm blue laser</p>

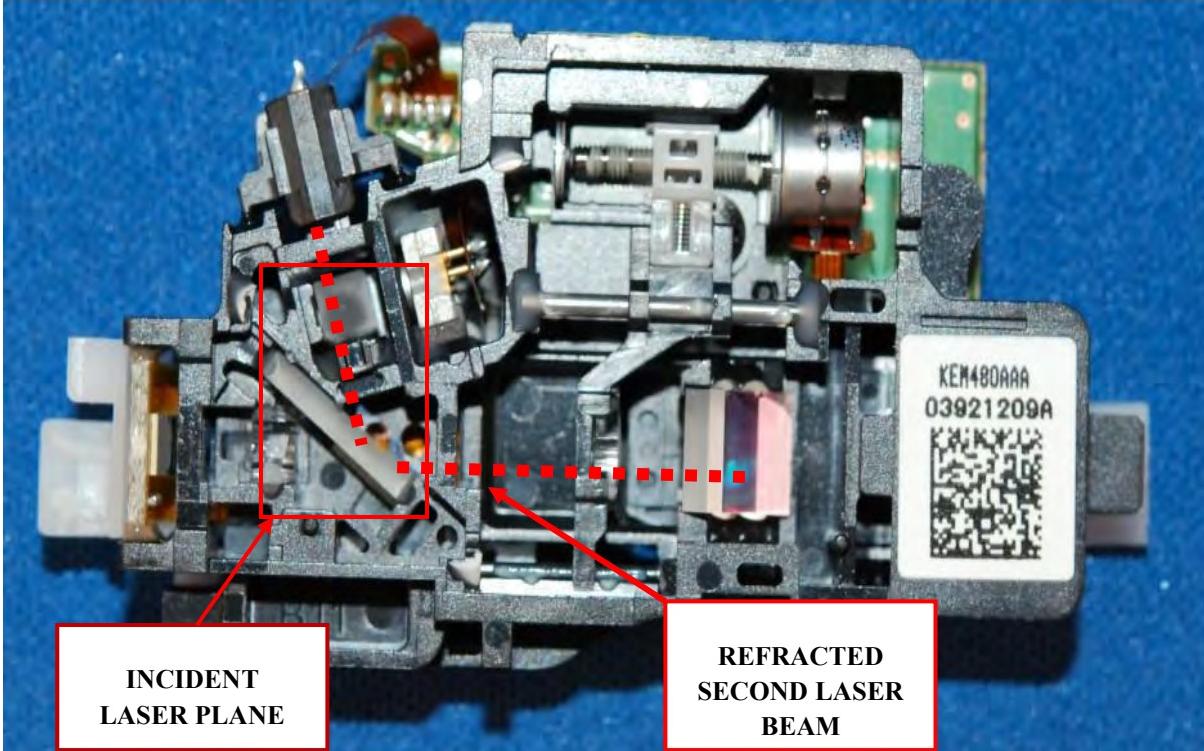
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9d. a beam shaper, allocated in optical paths of said first and second laser beams, and formed with a plurality of planes locating in different angles, comprising:	 <p data-bbox="593 1241 868 1323">BEAM SHAPER</p> <p data-bbox="1058 1192 1353 1323">PLURALITY OF PLANES</p>

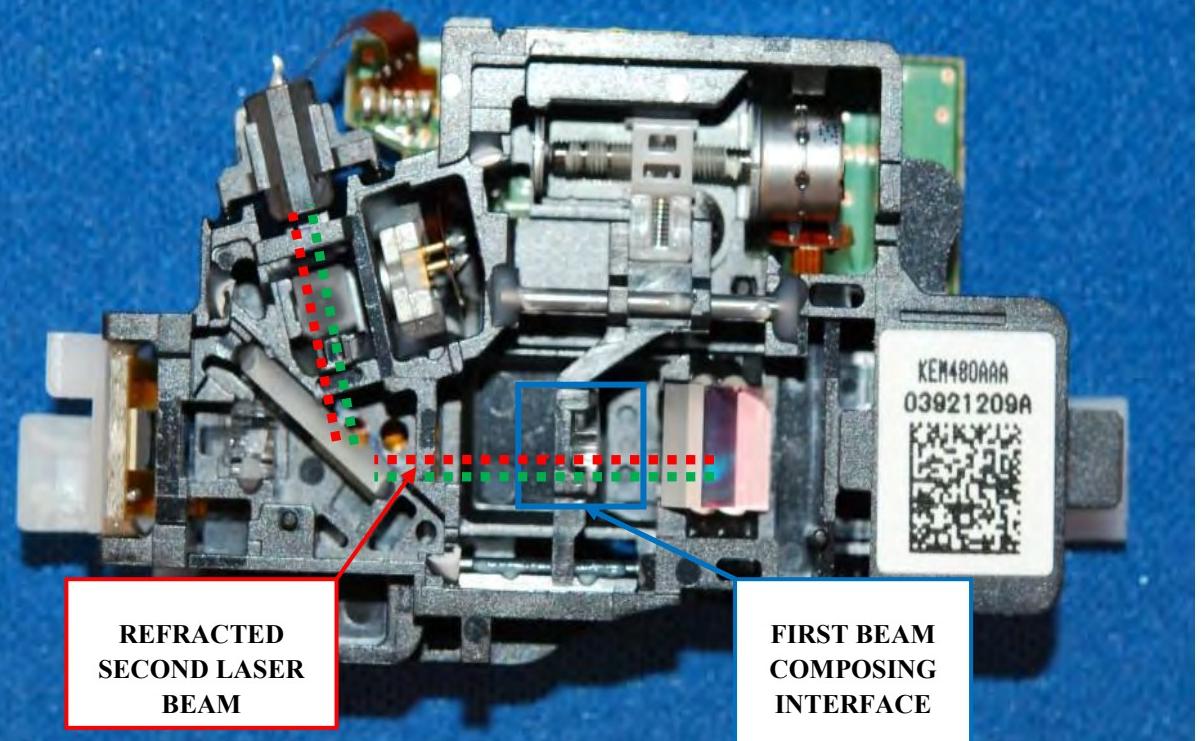
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9e. an incident laser plane for refracting said second laser beam, to generate a refracted second laser beam;	 <p data-bbox="686 1036 876 1101">INCIDENT LASER PLANE</p> <p data-bbox="1277 1011 1510 1117">REFRACTED SECOND LASER BEAM</p> <p data-bbox="633 1175 1320 1215">Legend: SECOND LASER BEAM -----</p>

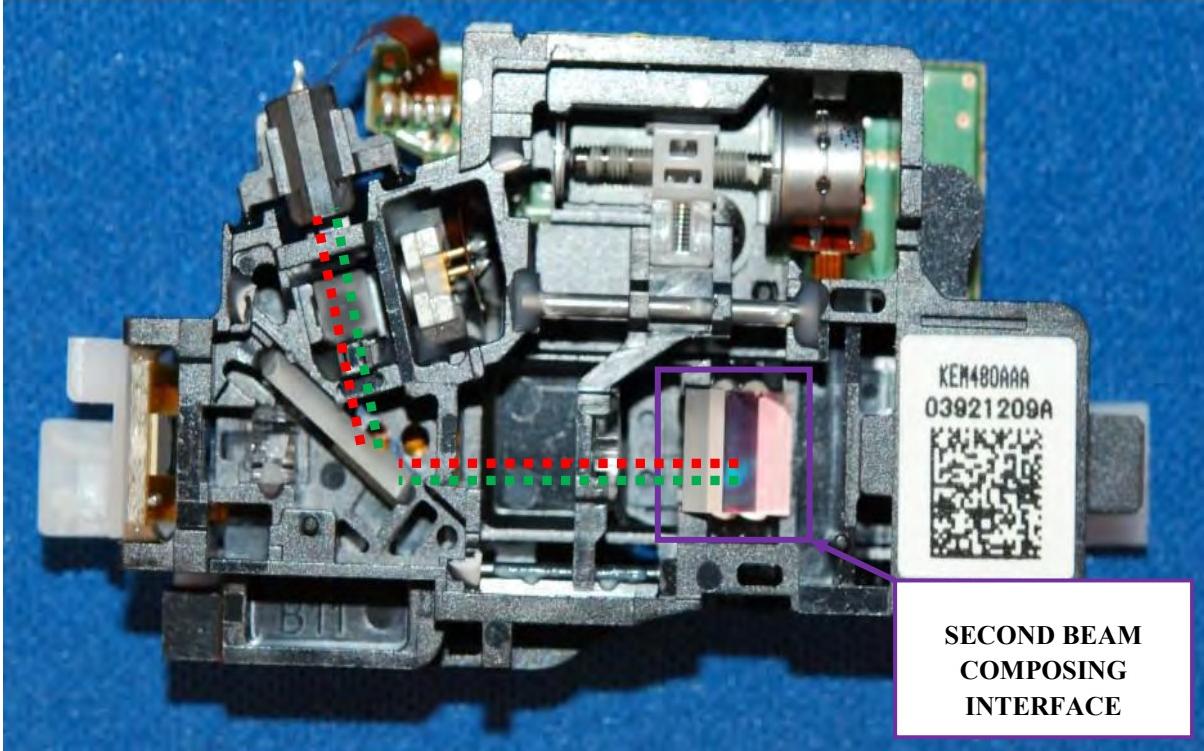
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)		
<p>9f. a first beam-composing interface for composing said refracted second laser beam with said first laser beam into an optical output path;</p>	 <p data-bbox="715 985 941 1073">REFRACTED SECOND LASER BEAM</p> <p data-bbox="1391 985 1548 1073">FIRST BEAM COMPOSING INTERFACE</p> <table border="1" data-bbox="612 1144 1478 1284"> <tr> <td data-bbox="612 1144 975 1199"> Legend: </td> <td data-bbox="975 1144 1478 1199"> SECOND LASER BEAM ••••••• FIRST LASER BEAM ■■■■■■■ </td> </tr> </table>	Legend:	SECOND LASER BEAM ••••••• FIRST LASER BEAM ■■■■■■■
Legend:	SECOND LASER BEAM ••••••• FIRST LASER BEAM ■■■■■■■		

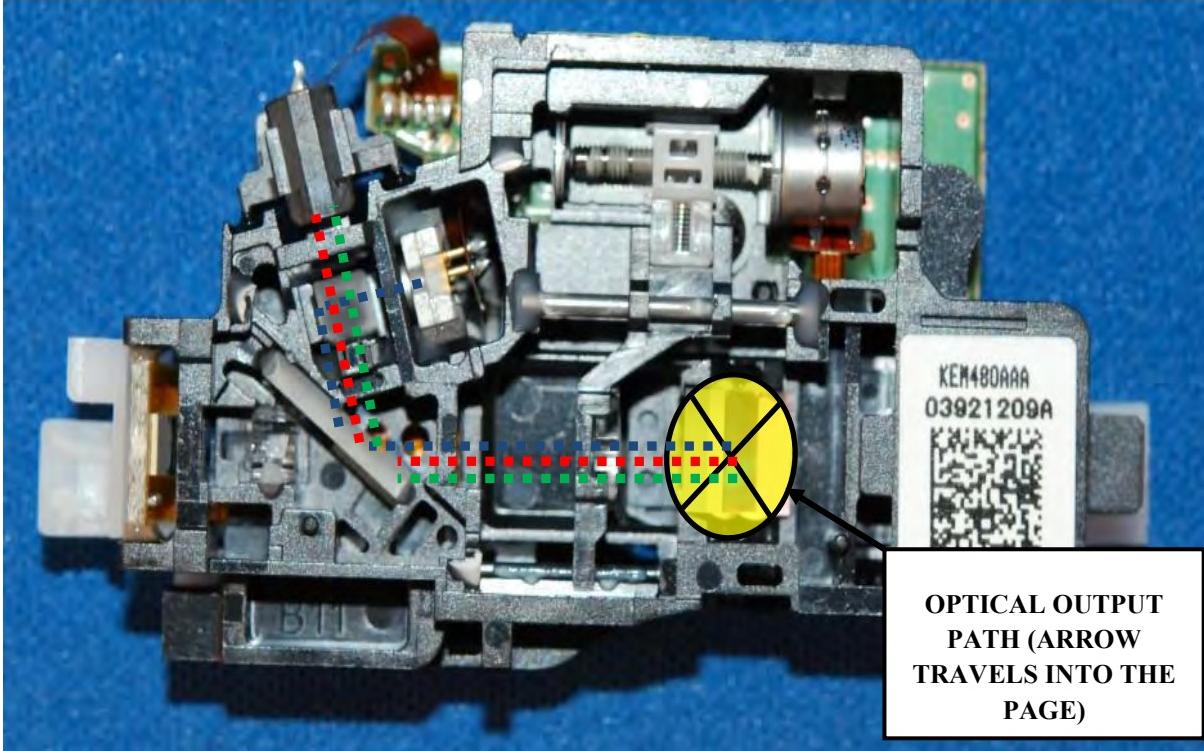
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9g. a second beam-composing interface for composing said first and second laser beams,	 <p data-bbox="1520 979 1731 1093">SECOND BEAM COMPOSING INTERFACE</p> <p data-bbox="591 1158 1457 1289">Legend: SECOND LASER BEAM ••••• FIRST LASER BEAM •••••</p>

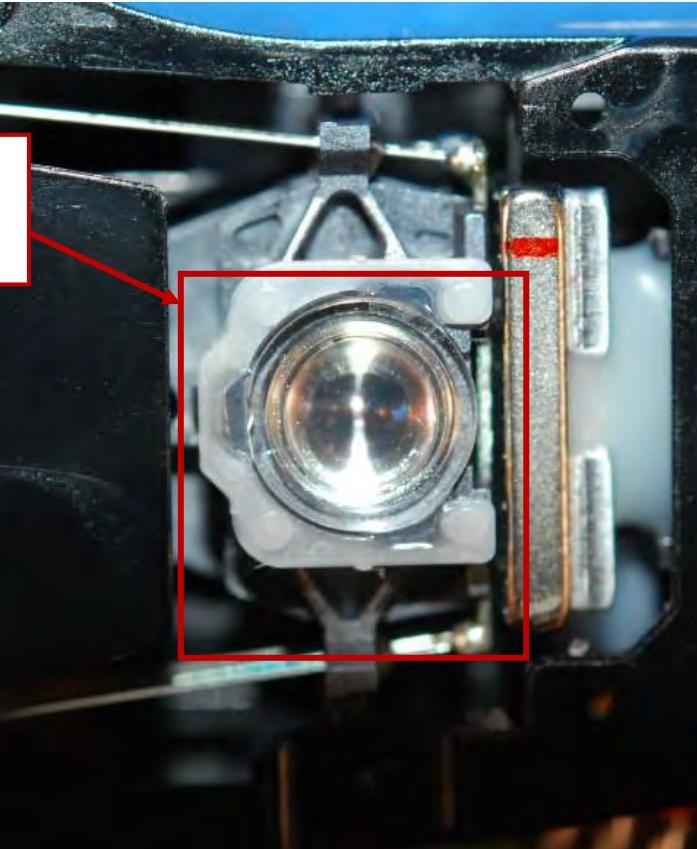
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9h. after they are being composed by said first beam-composing interface, with a third laser beam into said optical output path;	 <p>The image shows a cross-sectional view of a laser assembly, likely from a projector. Three laser beams are shown: a red beam, a green beam, and a blue beam. These beams are directed through various optical components, including lenses and mirrors, before exiting through an optical output path. A yellow circle with a black 'X' highlights a specific area where the beams converge or are manipulated. A legend at the bottom left identifies the beams: 'SECOND LASER BEAM' (red), 'FIRST LASER BEAM' (green), and 'THIRD LASER BEAM' (blue). A callout box points to the yellow circled area with the text 'OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)'. A QR code and a serial number 'KEM480AAA 03921209A' are visible on the right side of the assembly.</p> <p>Legend:</p> <ul style="list-style-type: none">SECOND LASER BEAM ■■■■■■■FIRST LASER BEAM ■■■■■■■THIRD LASER BEAM ■■■■■■■

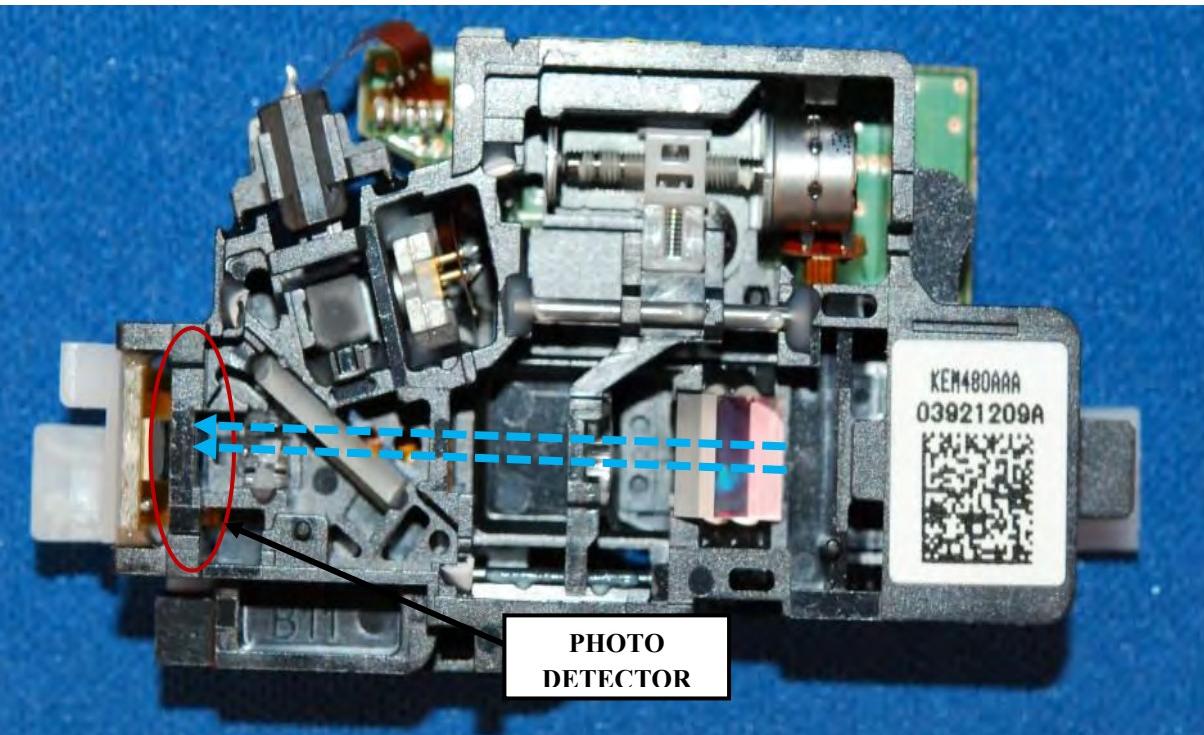
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9i. an objective lens for focusing laser beams in said optical output path onto said optical recording media as an reading/writing spot; and	 <p data-bbox="614 572 846 638">AT LEAST ONE OBJECTIVE LENS</p>

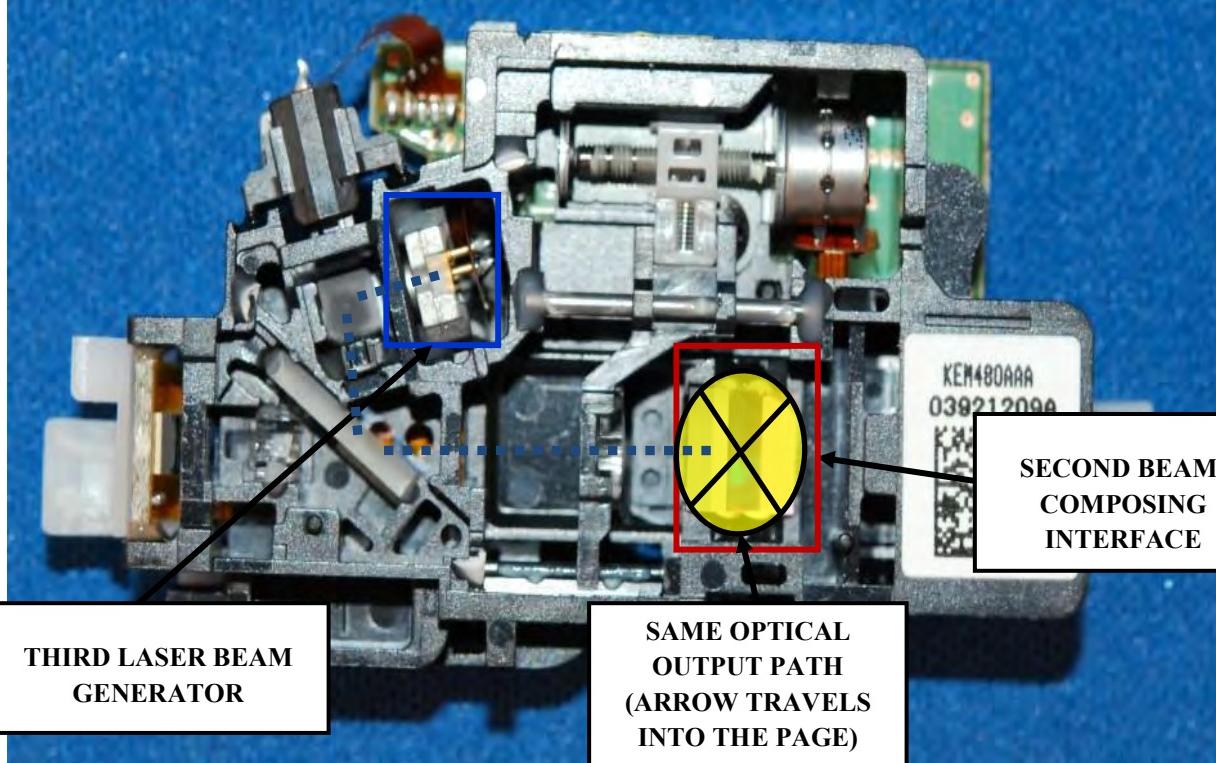
U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9j. a photo detector for transforming a reflective laser beam returning from said optical recording media into corresponding signals and accomplishing data retrieval;	<p><i>Photograph of the objective lens from BP200</i></p>  <p>Legend:</p> <p>REFLECTIVE LASER BEAM ■■■■■</p>

U.S. Patent No. 6,324,150

Exhibit A3

CLAIM ELEMENT (USP 6,324,150)	EVIDENCE FROM PRODUCT (LG BP125, BP200, BP325W AND BP330)
9k. wherein said third laser beam is an incident laser beam generated by a third laser beam generator, refracted to said second beam-composing interface and composed into same optical output path.	 <p data-bbox="608 1024 910 1090">THIRD LASER BEAM GENERATOR</p> <p data-bbox="1205 992 1459 1127">SAME OPTICAL OUTPUT PATH (ARROW TRAVELS INTO THE PAGE)</p> <p data-bbox="1592 829 1803 926">SECOND BEAM- COMPOSING INTERFACE</p> <p data-bbox="608 1188 1290 1286">Legend: THIRD LASER BEAM · · · · ·</p>